



ESTABLISHED 1859.

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## AS AN OFFICIAL JOURNAL

THE CHEMIST AND DRUGGIST is supplied regularly to every member of the following Societies:—PHARMACEUTICAL SOCIETY OF IRELAND, SOUTH AFRICAN PHARMACEUTICAL ASSOCIATION, OTAGO PHARMACEUTICAL ASSOCIATION, PHARMACEUTICAL SOCIETY OF QUEENSLAND, PHARMACEUTICAL SOCIETY OF SOUTH AUSTRALIA, PHARMACEUTICAL SOCIETY OF WESTERN AUSTRALIA, and TASMANIAN PHARMACEUTICAL SOCIETY.

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## POSTCARD COMPETITION—JULY.

ONE GUINEA is offered for the best quotation from any eminent writer—British or foreign, ancient or modern—not exceeding 50 words, suitable for use in advertising any of the articles usually sold by chemists. The original need not necessarily have the medicine, &c., in contemplation. Indeed, a quotation cleverly diverted from its original meaning to the purposes of the advertisement will be in many cases preferred. Postcards for this competition must reach us during the month of July. All subscribers, their families and employees are eligible to compete.

## Summary.

THE petroleum-dealers of Liverpool protest against the proposed raising of the flashing-point (p. 96).

CHEMISTS who deal in photographic goods, and amateur photographers, will do well to read pp. 134-5.

AN account of the "cyanide process" for the recovery of gold and silver from ore-tailings appears on p. 126.

NUMEROUS details of pharmaceutical business in South Africa are given in a letter which is printed on p. 100.

SOME notes on drugs useful in the treatment of diseases more or less prevalent in the summer will be found on p. 132.

A SECOND notice of the Antwerp International Exhibition, dealing principally in detail with the English exhibits, appears on p. 127.

AN important concession by the Board of Inland Revenue, with regard to the export of tinctures and essences, is reported on p. 141.

A NEW YORK reporter has acquired from an enterprising pharmacist some interesting information concerning the peculiarities of musk-rat hunting (p. 126).

COMMENCING on p. 111 will be found an interesting pharmaceutical novelette from the pen of the eminent novelist Mrs. J. H. Riddell.

A PHARMACIST gives some amusing experiences with whooping-cough, and at the same time some valuable hints as to its treatment (p. 124).

A NUMBER of formulae of which good use may be made by chemists and druggists will be found under "Medical Gleanings" (p. 107) and "Practical Notes" (pp. 109-110).

MR. PIPER, whose name acquired renown in the chlorodyne case, has been measuring his strength against a chemist in the St. George's Vestry Hall, and has come off second-best (p. 98).

"A DAY'S WORK in the North" and "Some of my Customers" treat of pharmacy from different aspects, and show the immense variation obtaining in different pharmacies (pp. 136-7).

OUR Town Traveller describes several new introductions including the electro-neurotone, ink, bottles, condensed milk, &c., and also gives further notes on the nitrate-of-silver business (p. 139).

THE reports on the Fertilisers and Feeding-stuffs Act which are now being submitted to the County Councils by the analysts seem to indicate that the Act is not much of a success so far (p. 97).

"THE EASTWARD-ROUND PHARMACIST" is the title of an article by Mr. W. Mair, giving an account of pharmacy in the principal ports between England and Calcutta (p. 157). Mr. S. M. Burroughs also contributes some interesting notes on pharmacy in Gibraltar (p. 156).

THE drug and chemical markets remain in an exceedingly quiet condition, the chief event of the week being the general upward tendency of Japanese and Chinese drugs. Quinine continues to gain strength, but there have been reductions in bromine salts (English), and in borax and boracic acid. Phosphorus may also show a breakdown soon.

AMONGST legal reports will be found the judgment of Mr. Justice Stirling in the Yorkshire Relish case, an important magisterial decision under the Veterinary Surgeons Act, a fine imposed for the sale of homoeopathic medicines not duly stamped, and some interesting remarks by Mr. Commissioner Kerr on chemists, in a case in which the costs allowed to a chemist were challenged (p. 101).

CORRESPONDENCE includes a letter describing an earthquake experience at Constantinople, some remarks on army dispensers, a copy of Sir Andrew Clark's prescription for choleraic diarrhoea, a protest against a proposed increase of the strength of tincture of iodine, and another against the new scheme of constituting the Board of Examiners. Much legal, dispensing, and miscellaneous information will also be found among the answers to correspondents (p. 163).

## English News.

*The Editor is obliged to correspondents who send local newspapers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.*

### The Instituto of Chemistry of Great Britain and Ireland.

At the examination in practical chemistry for admission to the membership of this Institute, held at the laboratories at 30 Bloomsbury Square, W.C. from July 3 to 5, 27 candidates presented themselves, of whom the following 15 were successful:—A. Adams, trained at Mason College, Birmingham; H. Bowes, assistant to W. Thoinson, F.I.C.; O. F. C. Block, Finsbury Technical College, and student under J. Hodgkin, F.I.C.; W. C. Carter, Finsbury Technical College; W. Crossley, Royal College of Science, Dublin; W. R. Hardwick and J. Harger, University College, Liverpool; J. A. Hatsfield, Mason College, Birmingham; G. H. Perry, Royal College of Science, London; W. Ralston, Glasgow and West of Scotland Technical College; A. Ross and H. C. Seabrooke, Finsbury Technical College; T. C. Sharrott, Mason College, Birmingham, and Royal College of Science, London; E. A. Warmington, Mason College, Birmingham, and Leipzig University; J. T. Whitton, Glasgow and West of Scotland Technical College. The examiners were Professor Wyndham R. Dunstan, M.A., F.R.S., F.I.C., and Mr. Thomas Fairley, F.R.S.E., F.I.C. The members of the Institute now number over 850, and there are over 200 registered students.

### Unlawful Possession of Syphons.

John Norkett (22), a chimney-sweep, of New Park Road Brixton, and Frederick Baldwin (14), of Winford Road, Brixton, bottler, were charged, before Mr. Biron, Q.C., at Lambeth, with being in the unlawful possession of two syphon bottles. A member of the firm of Messrs. Idris & Co. (Limited), mineral-water manufacturers, of Camden Town, identified the bottles as their property. They were lent by the firm to chemists, who in turn lent them to their customers. Thomas Samuel Harrod, a chemist, of Brixton Hill, said the boy entered his shop and asked if he wanted to buy any of Idris's syphons. Witness asked him how he became possessed of them, and the boy replied that they had been given to him by his father. The boy showed him two syphons, and asked him 1s. each for them. Knowing that the value was 2s. each witness gave him into custody. Police-constable Walker, stated that when outside the shop the boy pointed out Norkett as the man who had given him the bottles to sell. When taken into custody the man said he found the bottles in an empty house at Streatham. Mr. Biron discharged the boy, but ordered the man to pay a fine of 10s., or go to prison for seven days.

### A Threatening Letter.

At the Lambeth Police Court on Wednesday last week, Charles Henry Snell, chemist and druggist, of 92 St. John's Road, Illoston, was charged before Mr. Biron, Q.C., with using threats towards the Rev. W. S. Cadman, vicar of St. Jude's, Peckham. Prisoner, who is elderly and superior looking, acted somewhat strangely in the dock. The Rev. W. S. Cadman stated that he had been Vicar of St. Jude's for ten years, and had known the prisoner as a parishioner about eight years. When he first knew the prisoner he had a daughter eight or nine years of age and, report said, a wife from whom he was separated. After a while a lady-help came to take charge of the child and house. Late one evening in 1889 the lady-help sent for him urgently to call upon her, which he did the following morning. She then told prosecutor that she was *enervate* by Mr. Snell, and asked him to marry them in his church. Mr. Biron: I don't think we need go into those details. Mr. Andrews: It merely shows what led up to these threats. Prosecutor said he refused, under the circumstances, to perform the ceremony, and since then he had been continually subjected to annoyance at the hands of the prisoner. This culminated last week, when he received a letter from the prisoner, emphatically threatening to shoot him. In consequence of this threat he went in fear of his life. Prisoner entered

upon a rambling statement as to his having, before Mr. Cadman came to Peckham, attended St. Jude's Church. Mr. Biron: That is not the point; you are charged with sending this threatening letter. Prisoner: I sent it—I sent it; but I had no meaning in it when I said that I would shoot him. I was very excited at the time through looking at some of Mr. Cadman's letters. Police-constable Gale stated that on arresting prisoner he exclaimed, "He (prosecutor) means to ruin me; I am sorry I did it." James Deal, clerk to the prosecutor's solicitor, further stated that upon calling upon the prisoner to ask him to give a written undertaking not to further molest Mr. Cadman, he answered, "I shall shoot him; if I can't do it anywhere else it shall be in the pulpit." Mr. Biron ordered a remand with the view of the state of the prisoner's mind being medically inquired into.

### The Unrestricted Sale of Carbolic Acid.

On July 19, Dr. T. Jackson, the Croydon Borough Coroner, held an inquiry at Thornton Heath with reference to the death of Catherine Martin, aged 26 years, the wife of a carpenter residing at Foulsham Road, Thornton Heath, who committed suicide on Tuesday by swallowing an ounce of carbolic acid. It appeared that the deceased, who was married at 16, and was the mother of six children, had suffered from repeated attacks of acute melancholia. On Tuesday she sent her little girl for some carbolic acid, which she swallowed, afterwards dying in great agony. Mr. Handford, a chemist, of High Street, Thornton Heath, stated that the little girl brought him a note, asking for a bottle of carbolic acid, which he supplied. Although it was a very deadly poison, as the jury could see in this case, it was not scheduled as a poison. The Pharmaceutical Society had petitioned the Government to have it scheduled, but no attention had been paid to the request, probably on the ground that it would be inconvenient to include it, carbolic acid being used extensively just now for whooping-cough and for various sanitary purposes. The witness added that it need not be labelled at all, but he always made it a practice to put a poison label on it. A juror asked the witness whether he considered himself justified in selling carbolic acid to a child nine years of age. Mr. Handford replied that there were no restrictions whatever. The Juror: Then there ought to be. The Coroner concurred and said it was a shame that such a state of things should exist. The subject was allowed to drop, and the jury, returned a verdict of suicide whilst temporarily insane.

### The Petroleum-trade and the Flashing-point.

A large and influential meeting of the petroleum-trade of Liverpool was held at the office of W. B. Bowring & Co. on Tuesday, July 17, the Right Hon. W. B. Bowring, Lord Mayor, in the chair. Mr. A. H. Samuel was requested to act as Hon. Secretary. After considerable discussion, it was unanimously resolved that:—

This meeting of the importers, principal merchants, and dealers in the petroleum-trade of Liverpool, while fully recognising the paramount importance of protecting the lives and property of all her Majesty's subjects, think that further legislation respecting the keeping, selling, and conveyance of petroleum oil is unnecessary and needlessly harassing and annoying to a large and important trade, which is at present carried on with care and safety by thousands of dealers throughout the country under the existing Petroleum Acts. The flashing-point for burning-oils as now fixed by Act of Parliament being, in our judgment, perfectly safe for all practical purposes, we protest against the suggested raising of the same.

A committee was appointed to co-operate with a London committee in opposing alteration of the existing laws.

### Charge of Embezzlement by a Chemist's Traveller.

On July 20 at the Clerkenwell Police Court, Hugh Ramsay, a town traveller, was charged on remand, before Mr. Bros, with embezzling moneys received for and on account of his employer, Mr. Arthur James Cove, trading as E. F. Langdale, wholesale chemist, of 72 and 73 Hatton Garden, Holborn. Mr. Ricketts, solicitor, appeared on behalf of the prosecution, and a barrister whose name did not transpire appeared for the prisoner. Mr. Ricketts said the prisoner had been in the employ of the prosecutor as town traveller at a salary of 5*l.* per week until August last, when a new arrangement was made with him. He was to receive 3*l.* per week and commission, and he was

allowed to work for others. It was the prisoner's duty to pay all moneys he received to the cashier, who would sign the prisoner's collecting-book and enter the amounts received in the cash-book. Prosecutor, having suspicions, sent a circular round to his customers asking them to send receipts given by the prisoner back to him, which they did. Certain defalcations were discovered by this means. Prisoner had been remanded several times, and had made restitution of more than half the money alleged to have been received by him. Prisoner was highly connected, and as he had made such restitution as was in his power the prosecutor now asked that his Worship would deal with the case as one under the First Offenders Act, and bind the prisoner over in his own recognisances to come up for judgment. The prisoner's accounts were correct up to the time of the new arrangement being made, and no doubt he believed from then that he was an agent to the prosecutor.

Counsel for the prisoner said that he had personally known the prisoner for eight years as a highly respectable man, and he would urge his Worship to adopt the course asked by Mr. Ricketts. Mr. Bros asked Mr. Ricketts whether the prosecutor would be willing to withdraw from the charge. Mr. Ricketts replied that the prosecutor would prefer the other course being adopted. Mr. Bros said if the defence that the prisoner acted only as agent to the prosecutor was to be urged he should not deal with it. Ultimately the prosecutor gave evidence on one charge, the prisoner pleaded guilty, and the Magistrate ordered that he should enter into his recognisances in the sum of 50/- to come up for judgment if called upon.

#### A Coroner Recommends a Safety-bottle.

William Hart, aged 76, of Holliswell Road, Bolton, was suffering from a cough, and had lately been under medical treatment. His daughter made him some herb-tea, which she placed in a jug on the kitchen boiler. A quantity of ammonia in a half-gallon bottle was also kept on the boiler. The deceased, who had lost his sense of smell, had drunk some of the ammonia in mistake for the herb-tea. He died from exhaustion on Thursday of last week. At the inquest the Coroner (Mr. R. Taylor) showed the jury a patent novelty bottle he had received, having a small bell attached to the cork. Many people, he said, used chloral or laudanum during the night, and this bottle would prevent the use of the wrong medicine in the dark. Dr. Thornley, who attended the deceased, considered it a good idea to have a small bell fastened to the cork of every bottle containing poison used in houses, and the jurymen also endorsed this view.

#### Drinking Oxalic Acid.

Mrs. Sophia Stapley, wife of an Erith (Kent) night-watchman, drank a quantity of dissolved oxalic acid. At the inquest on Saturday, Dr. Bartlett stated that in his opinion deceased must have taken 1 oz. of the acid. Mr. James Godfrey Goddard, registered chemist, 77 High Street, Erith, stated that he sold oxalic acid from bulk as required at 2d. per oz. He should label it with the word "poison," and the name of the article and the name and address of the seller. He remembered a woman buying some on the Thursday, and she asked for 2 ounces, saying she wanted it for cleaning brass. He also sold salts of lemon at 3d. per oz., but it was not so dangerous as oxalic acid. The Coroner told Mr. Goddard that he was quite right in cautioning people when buying poison, and a verdict of suicide by taking oxalic acid whilst temporarily insane was returned.

#### A Fatal Dose of Creosote.

A young lady named Gillman, residing at Upper Deal (Kent), secured a bottle containing creosote during the progress of cleaning operations. She swallowed the contents, and lying down on the bed expired. She had been under the supervision of a trained nurse, to whom the drug was supplied by deceased's medical attendant some years ago. At the inquest on Thursday, a verdict of suicide whilst temporarily insane was returned.

#### The Half-Holiday.

The chemists and druggists of Truro have decided to close their business establishments at 1 o'clock each Friday afternoon.

#### Fortifiers and Feeding-stuffs Act.

In his first report to Rutland County Council Dr. Bernard Dyer states that he has not received any samples for analysis during the past quarter, and on his suggestion the Council decided to take steps to make the Act better known in the county.

Only one sample was received by the district agricultural analyst to Herefordshire County Council during that quarter, and that showed a deficiency in regard to proportions of soluble phosphate and insoluble phosphate. As the sample was not taken in accordance with the provisions of the Act, no proceedings were taken.

Dr. Bernard Dyer, reporting to Hertfordshire County Council, states that since January last only one sample had been received, and it was suggested this was on account of the charges being higher than farmers paid to other analysts, this being especially the case when the fees paid by members of the Royal Agriculture Society were compared with Dr. Dyer's. It was pointed out that only members of the Royal Agricultural Society could avail themselves of these analyses, and that they had to pay an annual subscription for membership. Mr. Part, one of the members, stated in his opinion it was due to the fact that the preliminaries required by the Act were such as to make it almost impossible to carry out, and therefore practically the Act was a dead letter all over the country.

#### A Chemist takes Strychnine.

An inquest has been held at Bradford touching the death of John Benson Newbould, 44 (described as a chemist, but not on the register), of Longside Lane, who died on Thursday morning last week apparently from the effects of strychnine. Miss Elizabeth Newbould, the sister of the deceased, said that she resided with the deceased. Her brother was alive at half-past eight o'clock that morning. He was then in the attic at 69 Longside Lane. He did not sleep in the attic, and she did not know at the time why he had gone there. She went upstairs, thinking there was something strange, and found her brother lying in agony on the floor. The deceased kept drugs in the attic, but she did not notice the bottle of strychnine when she went upstairs to her brother. The deceased had been in bad health for about three years. He had suffered from depression of spirits, but had never threatened to destroy himself. He was giving up business for a time in consequence of ill-health. Thomas Wynn, of Stillington, a cousin of the deceased, said that when he went up to the attic that morning he found a bottle of strychnine behind a box about three yards from the deceased. Some liquid had been spilt on the floor. The jury found that the deceased had committed suicide whilst of unsound mind.

#### A Family Ointment.

A girl, eight years of age, named Jane Petts, residing with her parents at South Willesborough, near Ashford (Kent), died on Sunday morning with symptoms of irritant poisoning. At the inquest on Monday, before Mr. Mercer, the parents stated that the child was accustomed to eat wild-rose berries and whitethorn berries from the hedges, together with different herbs, and Dr. Owen stated that deceased died from irritant vegetable poisoning. In reply to a juror, the father of the child stated that he made ointments from a herb known as "golden rod." Questioned as to his *modus operandi*, Petts stated that he mixed lard and the herb together and simmered them down. The ointment was of a green colour, and he used it for gatherings and sores. He did nothing else with the herb. The Coroner: So you are not a very extensive chemist then? Petts, continuing, said the recipe had been in the family for many years. When applied to the gathering it drew it and then healed it. In answer to a further question, Petts stated that he also made tea with the herbs, and the Coroner here observed that if that was so there was no fear of the child being poisoned by partaking of the herb. A verdict in accordance with the medical evidence was returned.

#### The Sixpenny Spirit-impost in Jersey.

The Jersey States, finding themselves in financial difficulties, recently adopted a bill imposing a fresh impost of 6d. per half-gallon on spirituous liquors. A number of local residents petitioned the Privy Council not to confirm this

measure. Mr. F. A. Plint, of the King Street Drug Stores, writes to the *Jersey Times*, of July 21, to explain why he signed the petition in question. He says:—"My own object was to protest against the increase of the impôt, which presses very heavily on my own profession and trade, and I consider unjustly so. Medicines are not a luxury but a necessity of life, and should be free from impôt-duty. I have discussed this question many times with members of the States, and I consider that men who are required by the public to devote all their time to them should receive some consideration. And I feel sure that the members of the State would see the matter in the same light that I do, could they but have a little insight into the true facts of the case from our standpoint."

#### Unstamped Scales.

At Tunstall Petty Sessions, on Thursday last, Messrs. James Leech & Co., drapers, Tunstall, were summoned for having in their possession, for trade-purposes, a pair of scales that were not stamped. Inspector Knight stated that the scales in question were in the warehouse, and were old and unfit for use. A fine of 20s. and costs was imposed.

#### Stop Thief!

In the evening of Monday, July 16, Candler's warehouse, Commercial Road East, was broken into and twelve cases "Cygnet" brand eucalyptus oil, each containing two 25-lb. tins, stolen. It was the only parcel annexed, and the operation of carrying the lot down a narrow spiral stone staircase, loading it into a cart, and making off with it, seems to have been accomplished in about half-an-hour. As the parcel is now probably on the market "for private treaty," chemists who receive suspicious offers of eucalyptus oil are asked by the rightful owners of the parcel to communicate with the Criminal Investigation officers, Leman Street, E.

#### An Overdose of Morphia.

Andrew Ramsay Gordon, 32, of 58 St. John's Road, Upper Holloway, was found dead in bed on Wednesday of last week. He had been unwell. At the inquest Mr. J. Sims Gordon, of Aberdeen, identified the body as that of his brother. Police-constable White said he discovered in the deceased's vest pocket the small bottle produced, containing muriae of morphia. Mr. John Lorimer, wholesale druggist, Britannia Row, said that the deceased had been 15 years in his service as warehouseman. Witness learnt that he had had the morphia in his possession six weeks, and believed that he had taken the poison to induce sleep. Formerly he drank to excess. Dr. Rattray said that death was clearly due to an overdose of morphia. Witness's belief was that he had taken the morphia to assuage pain and induce sleep, and the jury returned a verdict of death from misadventure.

#### Chemists at Cricket.

Two teams from Boots' chemist's shops at Nottingham—one selected by the captain, and the other by the vice-captain—played a match on July 21, at the Meadows, Nottingham. The captain's team scored 61, and the vice-captain's 105 for 8 wickets. The top score was 41, made by C. Stephen for the victors; Keywood 18, Park 13, Fulton 12, and Carnall 11, were the other two-figure scorers.

#### Advertisements on Houses.

In the Westminster County Court, on July 19, Mr. Bowler, the owner of premises at Tooley Street, London Bridge, claimed compensation against two defendants, Chandler and Brown, for injury done to the roof of his premises, in consequence of the alleged negligence of their workmen. The plaintiff's premises adjoin a tall block of model dwellings, the back wall of which abuts on the South-Eastern Railway, and was used for the purpose of advertising McLinn's food.

The plaintiff said that, in the course of the repainting of the advertisement, the defendants' men acted negligently, and allowed their scaffolding to fall upon the roof of his premises, with the result that damage was done to a considerable extent.

The defendants denied that any but slight damage had been done, and this had been ratified at their expense.

His Honour said he had no doubt the defendant Brown had trespassed upon the plaintiff's premises, and caused

damage by his men walking over the roof. There would be judgment for the plaintiff for 3*l.* against Brown, but as nothing had been proved against Chandler the case against him would be dismissed.

#### A Pharmacist v. Piper.

Greek met Greek in the fashionable precincts of St. George's, Hanover Square, one day last week, and the tug-of-war was pulled within the Vestry Hall of that parish, Mr. R. W. Walden, pharmacist, of Eaton Square, and Mr. Piper (the same whose name acquired renown in connection with its owner's recent legal overthrow by the Pharmaceutical Society) being the leaders of the opposing hosts. It so happens that both Mr. Walden and Mr. Piper are members of the Vestry. Mr. Walden, being dissatisfied with the disinfectants used by that body, obtained the appointment of a sub-committee to inquire into the matter, with the assistance of Professor Corfield, medical officer to the Vestry. The sub-committee (of which Mr. Walden was a member), in the course of its activity, had a series of bacteriological experiments made by Professor Boyce, of University College, upon Lawes', Jeyes', and carbolic fluids. Professor Boyce's reports were, briefly, to the effect that none of the solutions of these fluids in the strength of 1 in 500 killed the spores of *Bacillus subtilis* after two days' contact, that vegetable growth was retarded in dilutions of 1 : 15,000, 1 : 20,000, and 1 : 30,000, more so in carbolic and Jeyes' fluid than in Lawes' fluid; but that the spores were not killed even after a long immersion in a 1 : 20 solution of either of the substances experimented upon. Basing himself upon Professor Boyce's reports, Mr. Walden, upon the consideration by the Vestry of the report of its sub-committee, proposed that, in accordance with the recommendation, alkaliised creosote and carbolic powder of 20 per cent. should be employed. Alkaliised creosote, he maintained, had at any rate the advantage of cheapness. Mr. Piper opposed the proposal. This gentleman, in addition to other scientific qualifications, occupies the authoritative position of chairman of the Grocers' Association, and never misses an opportunity of having a fling at chemists and all their works. Mr. Piper is a strong advocate of free trade in carbolic acid, which he considers the disinfectant *par excellence*. He entered into what the nonplussed reporters describe as a "chemical duel" with Mr. Walden, until he was cut short in an elaborate argument about the toxicity of various preparations by the loud cry of "Yes, yes," which arose in unison from the assembled members when he began a new sentence with the words, "Now, would you take whisky and water—?" The end of the tussle was the adoption of the sub-committee's recommendation by twelve votes to one—Mr. Piper's.

#### Influenza and Carbolic Acid.

George Baker, aged 47 years, was a stencil-maker at Stroud Green. At the inquest on his body on Saturday of last week his widow explained that he would point to his head and say, "Wrong, wrong," and often when she awoke in bed she found him stooping over her, glaring wildly. He was not violent, and there was no reason for placing him under restraint. He left home on the previous Wednesday night for "a long walk," and never returned. Police-constable Smallman early the next morning found him lying dead in Highgate Wood. In a bush close by he found the public-house bottle produced, which had contained carbolic acid. The jury returned a verdict of suicide while of unsound mind.

#### British Medical Association.

In connection with the forthcoming annual meeting of this Association at Bristol, a *conversazione* will be held on Tuesday evening, July 31, at 9 o'clock, in the Exhibition Rooms. The band of the Royal Marine Artillery has been engaged to play. The *conversazione* has been organised by the exhibitors.

#### Midland Pharmaceutical Association.

The following are the officials elected for the ensuing year:—President, Mr. R. D. Gibbs; Vice-Presidents, Messrs. W. Jones and F. J. Gibson; Hon. Treasurer, Mr. F. Prosser; Hon. Librarian, Mr. F. H. Alcock; Hon. Auditors, Mr. W. Churchill and Mr. T. Chase; Hon. Secretary, Mr. G. E.

Perry. The following gentlemen were appointed delegates to the British Pharmaceutical Conference at Oxford:—Messrs. R. D. Gibbs, C. Thompson, H. Hulton, F. H. Alcock, A. Southall, F. Prosser, C. F. Jarvis, J. Barclay, F. J. Gihson, and G. E. Perry.

#### Suicide under the Influence of Drugs.

On Tuesday, the North London Coroner had before him the case of suicide, by means of a revolver, of Reginald Dalrymple Smith (36), manufacturing chemist, of 13 Cam Payne Gardens, West Hampstead. The evidence showed that deceased was in the habit of taking narcotics to induce sleep, and the Coroner remarked that the constant habit of indulging in such drugs, no doubt, had affected his mind and caused him whilst under their influence to take his life. The jury confirmed this by returning the usual verdict.

#### Festivity.

The employés of Messrs. Stevenson & Howell had their annual excursion on Saturday, July 7. A large party left London Bridge Station early in the morning by special train for Eastbourne. The headquarters were the Old Anchor Hotel, and here a substantial dinner and tea had been provided, to which full justice was done. After dinner the usual toasts were drunk, including that of the firm, and a vote of thanks to Messrs. Stevenson & Howell was proposed and carried with much enthusiasm.

#### Is Alcohol a Medicine?

The Liskeard Board of Guardians have received a communication from the Local Government Board, approving the appointment of Dr. Hammond as medical officer of the St. Neot district. Replying at the same time to the request of the Guardians that alcoholic liquor should be regarded as a medicine, and provided by the medical officer at his own cost, they intimate that "they were of opinion that beer, wines, and spirits recommended by the medical officer must be regarded as articles of food and drink, and they were unable to assent to the proposal that the medical officer should be required to provide these at his own expense." This decision evidently displeased the Guardians, for in the subsequent discussion the right of interference of the Local Government Board was questioned, and suggestions were made that they should fight the matter out with that authority. Mr. Hicks—a member of the Guardians—said that what led to the proposal of the Guardians was the fact that in certain districts the doctors had been unnecessarily prescribing alcohol at considerable cost to the ratepayers. For a long time the Guardians thought the amount of alcohol prescribed was excessive, but the doctors, like the Local Government Board, treated them with contempt and did as they liked. If the Board was informed that the new arrangement had been accepted by the medical officers, they might allow it to come into force. He moved that a further representation be made to the Local Government Board embodying these views. This proposition was carried unanimously.

#### Irish News.

#### Sir Charles Cameron Sued.

At Dublin this week Messrs. Coster, Johnson & Co. sued Sir Charles Cameron for 5*l.* 6*s.*, due for issuing a circular in connection with the publication of the poetical works of Mr. Thomas S. Cleary. The plaintiffs stated that they issued the circular on the strength of Sir Charles Cameron's name appearing as chairman of the committee. Sir Charles Cameron said that he merely allowed his name to appear for the purpose of getting in subscriptions. He never attended a meeting of the committee. The Recorder held that Sir Charles Cameron was not liable for the debt, and that the person to be sued was the Hon. Treasurer, whose name was also appended to the order, and who was supposed to receive subscriptions and discharge liabilities. He would accordingly dismiss the case without prejudice.

#### Scotch News.

##### A Shetland Epitaph.

A Glasgow correspondent sends the following, which is said to be still legible in the kirkyard of Cross, in Shetland:—

"DONALD ROBERTSON, born 1 Jan.; died 4th June, 1848.

He was a peaceful and quiet man, and to all appearance a sincere Xian. His death was very much lamented, which was caused by the stupidity of

LAURENCE TULLOCK,

of Clotherton, who sold him nitre instead of Epsom salts, by which he was killed in the space of 3 hours after taking a dose of it."

#### Presentation to a Teacher.

On Friday evening, July 20, in Daish's Rooms, South St. Andrew Street, Edinburgh, Mr. William Duncan, pharmaceutical chemist, apothecary to the Royal Public Dispensary, West Richmond Street, Edinburgh, and teacher of pharmacy, was made the recipient of a handsome testimonial, subscribed for by a large number of his former students, who have qualified as pharmaceutical chemists, or as chemists and druggists. Mr. Peter Boa, George Street, made the presentation, which consisted of a beautiful sterling silver tray and a tea and coffee service, enclosed in a handsome oak cabinet case. On the tray there is engraved the following inscription:—

"Presented to Wm. Duncan, pharmaceutical chemist, Royal Dispensary, along with a silver tea and coffee service, by his former students, on the occasion of his marriage, as an expression of their appreciation of his abilities as a teacher, and a token of their sincere esteem. Edinburgh, 19th July, 1894." Mr. Boa said that since Mr. Duncan had been in the Dispensary 462 Minor and 53 Major candidates had qualified from his classes, and during the eight years of his teaching the managers had twice enlarged the laboratories to accommodate the students whom his teaching attracted. About 120 were present, and after the presentation Mr. Duncan's health was drunk with great enthusiasm. The tray and service were supplied by the firm of R. L. Christie, jewellers, 18 and 20 Bank Street, Edinburgh.

#### From Pharmacy to Divinity.

The Rev. W. S. Crockett, who was recently elected colleague and successor to the Rev. John Dick, of Tweedsmuir, Peeblesshire, is a native of the village of Earlston, in Berwickshire, where he learned the business of a chemist and druggist. He is described in the *Haddingtonshire Advertiser* as "a general favourite among all classes, indefatigable in visiting, very genial in disposition, and preaches a good sermon." He is well known on the borders as the author of the "Minstrels of the Merse," and is at present engaged upon a second work of interest to natives of Berwickshire.

#### Will.

The will of the late Mr. Alexander Hope Johnstone, manufacturing chemist, Glasgow, who resided at Sheriff Park, Rutherglen, has been proved, the value of the personality being sworn at 1,575*l.*

#### Society of Chemical Industry.

Thursday and Friday of last week, the concluding days of the annual meeting in Edinburgh of the Society of Chemical Industry, were spent by the members in visiting a number of works and places of interest in Edinburgh and elsewhere. The early part of Thursday was occupied in visiting the works of Thomas Nelson & Sons, at Parkside, where the processes of bookbinding, colour-printing, &c., were shown; the engineering establishment of Messrs. Bertram, at Sciennes; the Park Brewery of Messrs. James & Thomas Usher, where a special brewing process was inspected; the brewery of William McEwan & Co. (Limited); the North British Distillery Company's premises at Gorgil Road; Messrs. Ford & Co.'s glassworks; Messrs. William Younger & Co.'s Abbey Brewery; the gasworks; and Mr. A. D. Jenkins' glassworks. On the same day a large deputation of the Society visited Broxburn Oilworks, and witnessed the different processes of the distillation of paraffin-shale, the refining of oils, &c. At this place luncheon was served, and

Mr. E. C. C. Stanford, the President of the Society, thanked the company for their kindness. In the afternoon, about 160 travelled by rail to Granton, and there went on board a steamer for a trip to the Forth Bridge, subsequently visiting Caroline Park, where, on the invitation of Messrs. A. B. Fleming & Co., a garden-party was held. At the same time an opportunity was here afforded of inspecting the manufacture of lampblack, printing-inks, and solidified oils. In the evening the members dined together in the Waterloo Hotel, under the chairmanship of Mr. Stanford, the croupiers being Messrs. Irvine, Tyrer, and Fawsitt. Mr. Howard proposed the toast of "The Society of Chemical Industry," and the Lord Provost (Sir James Russell) was among the speakers.

Friday was spent in a visit to St. Andrews, Dundee, and Perth. At Perth, Young's oil-gas process was shown at the gasworks, and Messrs. J. Pullar & Sons, dyers, gave a dinner to a large party. A smoking-concert was held at the Waterloo Hotel in the evening.

#### Aërated-water Manufacturer's Claim.

An action has been raised in the Sheriff Court here by John Hendry, Standard Aërated-water Works, Edinburgh, against Jack & Co., Waverley Aërated-water Works, Deanpark, Water of Leith, in which the Court is asked "to interdict Jack & Co. from collecting from Hendry's customers boxes for holding bottles of aërated waters, lent by Hendry to his customers, and to deliver to Hendry all the boxes in their possession, or pay 100*l.* as their value." Jack & Co. deny having any boxes belonging to Hendry. The Sheriff, who recently granted interdict, last week heard proof as to the claim for delivery of the boxes, but judgment was reserved.

#### Edinburgh Chemists', Assistants', and Apprentices' Association.

The fifth and last botanical excursion of the season took place on Wednesday, July 18, to Inveresk, leaving Waverley Station by train at 8.15 P.M. Arrived at Inveresk the company walked down the valley of the Esk to Musselburgh, and returned to town by train at 10.50 P.M. One notable feature in the flora of the valley was the great profusion of *Scrophularia nodosa*. Some fine specimens of *Pyrethrum Parthenium* with yellow foliage were also met with, apparently an escape from some garden higher up the river. The excursion was conducted by Mr. Alexander Sutherland, President.

#### SOUTH AFRICAN NOTES.

(From our Correspondent.)

CAPE TOWN, June 27.

**CAPE ALOES.**—At the late Columbian Exposition the Cape Government obtained an award for their display of aloes grown in the colony.

**COMMERCIAL TRAVELLERS IN SOUTH AFRICA.**—In Cape Colony at the present time every commercial traveller representing a foreign firm is compelled, before he can lawfully show a single sample of his goods, to pay a licence of 25*l.* This measure of protection for local traders seems likely now to be extended to Natal, where the House of Assembly has unanimously carried a resolution calling upon Government to devise a scheme for taxing foreign commercial travellers.

**THE COLONIAL PHARMACY BOARD.**—The report of the Colonial Board of Pharmacy for 1893, just issued as a Parliamentary paper, shews that during the year sixteen candidates presented themselves for examination as chemists and druggists. Thirteen failed to satisfy the examiners. At present the supply of qualified assistants is almost wholly derived from home, and judging from these statistics this state of things is likely to continue.

**PHARMACEUTICAL ENTERPRISE IN CAPE TOWN.**—At present, in fashionable Adderley Street, Messrs. Lennon & Co., among pharmacists, rule the roost, but I hear that Messrs. Heynes, Mathew & Co. are about to erect in the same thoroughfare a six-storey building, which will possess more than ordinary architectural pretensions. In a city

which is only just in course of transformation from the peculiarly insignificant style of building favoured by the Dutch a few generations ago the erection of a six-storeyed structure is sufficient of a novelty to be worth noting.

**TO WOULD-BE PHARMACEUTICAL EMIGRANTS.**—The flow of emigration is setting so strongly at the present time in the direction of South Africa that it may be well to state that it is not expedient for chemists' assistants to come out here without definite engagements, and in no case should any man make the venture who has not at least the Minor qualification. Nor is it advisable under ordinary circumstances for men with merely a few hundreds capital to think of making a start for themselves in South Africa.

**PHARMACY IN MATABELELAND.**—The opening-up of Matabeleland seems to be proceeding satisfactorily. Some of the wholesale druggist firms here get occasional orders from Bulawayo, and now and then one hears of enterprising pharmacists desirous of making a start in the country. When the time comes, no doubt the big firms will trek into the Promised Land themselves, it being with them a mere matter of adding one or two more to their already numerous branches. If the smaller men ever get a chance, it will be after the big ones of the trade have pegged out their "claims."

**INCREASE OF FREIGHT-RATES BY THE BRITISH LINES.**—The commercial community in Cape Town is greatly incensed with the Union and Castle lines, owing to a recent increase in their freights of 5*s.* per ton. It is said that the two companies for some years past have had an understanding to keep up freights, and the merchants here are combining with those of East London and Port Elizabeth to put an end to such a state of things. At the present time, a German line of steamships, running from Hamburg to Australia, and already calling at Port Elizabeth, are in communication with leading importers here, to try and arrange for freights to Cape Town, their freights from Hamburg being, roughly speaking, about half those charged by the English lines.

**BUSINESS NONE TOO BRISK.**—Trade in Cape Colony at present is far from satisfactory. In many parts of the country the locust-plague causes serious uneasiness, while prices, in the wool and wheat markets especially, are at a low ebb. Hence there is much grumbling on the part of all concerned in agriculture. Reports from up-country show that money is scarce, and wholesale firms here, who are accustomed, in the ordinary course of their transactions, to concede much longer credit than would be thought of at home, complain of unusual difficulty in obtaining remittances. This state of things naturally affects the wholesale druggists in common with the rest of the commercial community, but, fortunately, the depression as yet is not to be compared with such a state of affairs as prevails in Australia; and it is hoped that before long things may assume a more favourable complexion.

**THE DANGERS OF COUNTER-PRESCRIBING.**—A lawsuit at Port Elizabeth has excited much interest in trade circles. A Mr. Caithness sued B. G. Lennon & Co. (Limited), claiming 500*l.* damages, on the ground that he had been overdosed with strichnine, prescribed for him by the firm's manager. Defendants urged that the plaintiff was prescribed for merely as a friend, and that in prescribing for him Messrs. Lennon's manager was overstepping the scope of his duties. It was also urged—and on this point the doctors were at issue—that the plaintiff was not really suffering from poisoning at all, but from some disease contracted prior to the date on which the strichnine was administered. Mr. Justice Jones, in his summing-up, took it for granted that prescribing comes within the scope of a chemist's business, and that consequently Messrs. Lennon were responsible for the act of their servant. The jury found for the plaintiff, with 70*l.* damages, and costs.

**A WESTPORT (New Zealand) man wrote to his local Board of Health:** "I have the honour to inform you, for the information of the public, that I have from one to five cases of measles at our house, and I trust this notice will have the effect of stopping the ravages of this dire disease. N.B.—I believe there are a few hundred similar cases just now in Westport and neighbourhood."

## Legal Reports.

### THE VETERINARY SURGEONS ACT.—IMPORTANT PROSECUTION.

AT North London Police Court, on Monday, before Mr. Dickinson, Frederick Browning, farrier, of Howard Road, Stoke Newington, was summoned, at the instance of Henry Francis Wedlake, on behalf of the Royal Veterinary Society, "for that you, not being on the register of veterinary surgeons, and not holding at the time of the passing of the Veterinary Surgeons' Act, 1881, the veterinary certificate of the Highland and Agricultural Society of Scotland, did unlawfully use and take the addition and description stating that you are specially qualified to practise a branch of veterinary surgery contrary to section 17 of the said Act."

Mr. George Thatcher prosecuted, and Mr. C. V. Young defended.

Mr. Thatcher, in opening his case, said he prosecuted on behalf of the Royal College of Veterinary Surgeons, under the 17th section of the Veterinary Surgeons Act of 1881. The words of the section were that if any person after December 31, 1883, other than a person who for the time being is on the list of veterinary surgeons, or holding the certificate of the Highland and Agricultural Society of Scotland, take for title any name, title, or addition or description stating that he is a veterinary surgeon or any branch thereof, he shall be liable to a fine not exceeding 20*l.* The defendant in this case carried on a shoeing-forge at 49 Howard Road, South Hornsey. He had on his sign, "F. Browning's veterinary shoeing-forges, and infirmary for horses." The case had been decided in the Divisional Court in an appeal from a magisterial decision in the case of one John Robinson, reported in 61 *Law Journal* reports magistrates' cases, page 146. In that case the description was "veterinary-farrier," which was contended to be a false representation of veterinary surgeon. The head-note said that a farrier who is not on the register of veterinary surgeons, and not holding the certificate of the Highland and Agricultural Society of Scotland, commits an offence if he puts "veterinary-forge" upon his signboard, bill-headings, and the like. He would call his Worship's attention to the judgment of Justices Hawkins and Wills in the appeal in Robinson's case. Justice Hawkins said he was of opinion that the Magistrate ought to have convicted in the case (similar to the present), for nothing was so likely to hurt a horse as injury to its feet by unskilled treatment. Anyone reading the description "veterinary farrier" would come to the conclusion that he had the skill of a veterinary surgeon. It was not necessary to show that the user of the description had derived any benefit from it. Justice Wills said he was of the same opinion. If a man was qualified he would hold a diploma, but holding forth that he was qualified and not having the necessary credentials of the Royal Veterinary Society or of the Highland and Agricultural Society of Scotland was an offence under the 17th section of the Act.

Mr. Young said he would save the time of the court by pleading guilty. The defendant had painted on his signboard "Veterinary and Shoeing Forge," and, therefore, brought himself within the meaning of the Act quoted by the prosecution. For twenty years the defendant has had the board in question up, but it was merely a custom, and not intended to deceive anybody.

Mr. Thatcher: He goes further. He says he has an "Infirmary for horses."

Mr. Young: I have said I plead guilty; but wish you to consider extenuating circumstances. If Mr. Fletcher goes round the neighbourhood he will find within a mile a dozen other sign-boards under exactly the same circumstances. He simply had on his board "Veterinary Shoeing Forge." He did not say he could cure any animal. For the past fourteen months the defendant had always called in a duly qualified man to attend to the sick horses brought to the "Infirmary."

Mr. Dickinson: The words on the board must have some object, or they would not be there.

Mr. Young: Just the same as the plumber puts upon his board "Sanitary Plumber." He thinks it goes down better with the public. This system has prevailed in this neighbour-

hood ever since the defendant has been here. It is a kind of thing peculiarly associated with the farriers. Considering that nobody has been misled or defrauded, I hope your worship and Mr. Fletcher will be content with the costs of my summons.

Mr. Fletcher: This man has had an action before.

Mr. Young: We have had no letter, and no notice to produce any letter.

Mr. Dickinson: This is meant as a caution to others as well as the defendant.

Mr. Thatcher: This is not the first prosecution of the kind here at this court.

Mr. Young: I hope there will be more, and that they will come to me to get them off as lightly as possible. (Laughter.)

Mr. Dickinson inflicted a fine of 20*s.*, and 23*s.* costs.

### HOMOEOPATHIC MEDICINES AND THE MEDICINE-STAMP DUTY.

AT the Durham City Police Court on Thursday last week, Messrs. Mason & Co., of South Shields, and carrying on a branch shop at 93 Saddler Street, Durham, answered summonses charging them with exposing for sale a bottle containing a tincture of nux vomica, a preparation to be used and applied as a medicine, and which was liable for stamp-duty, without having on such bottle a label provided by the Inland Revenue Commissioners, and duly stamped to denote the charges; also with similar offences in regard to the following:—Tincture of belladonna, tincture of aconite, anti-cholera mixture, and Dr. Gregory's stomachic powder. Mr. J. T. Squire, of the Solicitor's Department, Somerset House, appeared for the Revenue authorities, and Mr. W. H. Oliver, solicitor, Durham, for defendant.

Mr. Squire said he understood the two Justices before whom these proceedings were originally taken were present in court, and it would be within their recollection what the facts were.

Mr. Beanlands: Yes.

Mr. Squire said since the case was before their Worships it had been considered by the Queen's Bench Division of the High Court, and that Court was of opinion that the Justices ought not to have dismissed the informations. That being so, a summons was issued by the Clerk calling upon defendant to appear there that day to hear the judgment of the Court. He took it that it was unnecessary to say anything further, except to remind the Bench that they were ordered to pay the costs following the dismissal of the two informations. He hoped the Bench would see their way to take that into consideration.

The order of the High Court was here handed in.

Mr. Oliver said defendant was bound by this decision of the High Court, and he asked the Bench to deal with the matter as leniently as possible, and inflict but a nominal penalty. Mr. Squire knew that it had already cost his (Mr. Oliver's) client a lot of money.

Mr. Squire: Yes.

Mr. Beanlands: We inflict the nominal penalty of half-a-crown in each case.

On the application of Mr. Squire, the usual Court expenses were allowed.

### "YORKSHIRE RELISH": JUDGMENT.

ON Tuesday last Mr. Justice Stirling, in the Chancery Division, delivered his considered judgment on the motion argued before him on July 6 and 7 in the action brought by Messrs. Goodall, Backhouse & Co., Leeds, against the Birmingham Vinegar-brewery Company.

His Lordship, in the course of his judgment, said the motion in this action was brought by the plaintiffs to restrain the defendant company from passing off a sauce not manufactured by them (the plaintiffs) by the use of the words "Yorkshire Relish" on their (the defendant's) labels and wrappers. The plaintiffs and their predecessors in title had for upwards of thirty-four years manufactured and sold a sauce, the composition of which was a trade secret, which they called "Yorkshire Rolish." Under this name the sauce or relish had been during that period very widely advertised. Up to 1884 the plaintiffs successfully resisted persons using, as rival traders, the name "Yorkshire Relish," and in 1884

the plaintiffs registered the words as part of their trademark under the provisions of the Trade-marks Act. In 1893 there were proceedings to take the words off the register, and the defendant company as "persons aggrieved" were unsuccessful, the House of Lords deciding in their favour. Soon after the decision in the House of Lords the defendants began to manufacture and sell a sauce under the name of "Yorkshire Relish," and this they sold in bottles labelled with labels which did not resemble the plaintiffs' labels. [His Lordship then referred to the differences in the colouring and lettering of the labels, and observed that the defendants referred to their company as "successors to Holbrook & Co."] These bottles were placed in wrappers, on which appeared the words "Yorkshire Relish." The two sauces had been analysed by chemists, and had been found to be widely different in their composition. A large number of affidavits had been filed on behalf of the plaintiffs from wholesale and retail dealers, exporters, and chemists. His Lordship then read the affidavits of Mr. Thomas F. Blackwell (Messrs. Crosse & Blackwell) and of Mr. F. C. Frye, M.P., as representing two important classes, and the effect of their evidence was that they had known Messrs. Goodall, Backhouse & Co.'s "Yorkshire Relish" for upwards of thirty years, and no other. If they saw "Yorkshire Relish" in a trade-list, they would suppose that the plaintiffs' was meant, and if they ordered "Yorkshire Relish" *simpliciter* they would expect to receive the plaintiffs', and none other. The defendant company filed the evidence of several grocers in Lancashire, Warwickshire, and elsewhere to the effect that the plaintiffs' was not the only "Yorkshire Relish" known to the trade, and that the get-up of the respective labels and wrappers being so different no person in the trade or any intelligent customer could mistake the defendants' for the plaintiffs' sauce. There were, however, his Lordship pointed out, the affidavits of several persons who swore that they had been deceived by the mere similarity of the name into buying the defendants' sauce. [The affidavits of Mrs. Mary Preece and Elizabeth Pugh read—the defendant's sauce in this instance being bought at a grocer's shop in Stockport.] It was urged that these people were not deceived, the labels being so different, and that even if they were it was no fault of the defendants, who had done all they could to protect the ignorant and unwary purchaser; but his Lordship came to a different conclusion. These people were deceived, and they belonged to that class of "unwary" purchasers whom the Act intended to protect. The question then arose whether the plaintiffs under these circumstances were entitled to an interim injunction? The House of Lords, affirming the decision of the Court of Appeal, decided that the plaintiffs were not entitled to the exclusive use of "Yorkshire Relish" as a trade-mark, but the Lord Chancellor laid it down very clearly that no one else could use the name for a sauce or relish unless the public were absolutely protected from being deceived. It was not necessary to show fraud, as was done in the Angostura bitters case, and this was settled in the Reddaway's belting case. If the defendants desired to use the words "Yorkshire Relish," they were bound to take all the precautions which the law imposed, and his Lordship did not consider that the Court was called on to inform the defendants what they could, or should, do beyond what they had done to protect the general public. He held that the plaintiffs were entitled to an injunction to restrain the defendants from using the words "Yorkshire Relish," as descriptive of or in connection with any sauce or relish without clearly distinguishing such sauce or relish from the sauce or relish of the plaintiffs. The costs of the motion to be costs in the action. His Lordship added that the plaintiffs' case had been very much overloaded with affidavits, and it would be the duty of the taxing-master to deal with this matter.

Mr. Graham Hastings, Q.C.: The injunction is to continue until trial or further order?

His Lordship: Yes.

Counsel for the plaintiffs were Sir Richard Webster, Q.C., Mr. Graham Hastings, Q.C., and Mr. John Cutler, instructed by Mr. J. Seymour Salaman, of 65 and 66 Chancery Lane.

For the defendants, Mr. F. Moulton, Q.C., Mr. Buckley, Q.C., and Mr. Vernon Smith, instructed by Messrs. Thorogood & Co., of Copthall Court, E.C., agents for Messrs. Cooper, of Newcastle-under-Lyme.

#### MR. COMMISSIONER KERR ON CHEMISTS.

IN the City of London Court, on Tuesday, Mr. Commissioner Kerr gave another instance of his capacity for dealing with exceptional cases. The plaintiff, Mr. Luke H. Woods, of 11 Ludgate Hill, E.C., had sued, amongst other chemists, the defendant, Mr. T. E. Handford, chemist, Yerburgh Street, Manchester, to recover the sum of 3*l*. 15*s*. for copies of a new monthly periodical called *Health Messenger* supplied. Judgment had been given for the defendant, who was allowed the sum of 3*l*. for costs, he having had to come to town the day preceding the trial. The plaintiff now applied to have the amount considerably reduced, he asserting that the sum was excessive, and should never have been allowed by the Registrar, whose duty it was to fix the amount. The defendant, for example, he said, might have left Manchester on the morning of the trial, and arrived in time for the case.

Mr. Commissioner Kerr said he could not ask a man to get up in the middle of the night in order to catch the first train just to reduce the expenses of the man who sued him. That would never do. He did not think the amount excessive, considering that the defendant was a chemist and would have to engage a *locum tenens* during his absence.

The defendant's brother appeared on his behalf to resist the application, and said he should apply for his costs of attendance. He had come from Manchester.

The plaintiff contended that the witness had no *locus standi*.

Mr. Commissioner Kerr said he had. He would hear anybody whom he pleased.

The plaintiff said he believed the defendant was in London at that time, and might have attended.

The defendant's brother said that was not so.

The plaintiff persisted in asserting that he was, and added that the defendant rode third-class on the last occasion when he was allowed first-class fare. To allow a chemist to travel first-class would be an encouragement to other litigants to come to that court in a coach and four—and just as reasonable. (Laughter.)

Mr. Commissioner Kerr: I suppose you think he ought to have come in a wagon?

The Plaintiff: Yes.

Mr. Commissioner Kerr said that as the plaintiff was so persistent he (the Judge) would go fully into the matter. It would cost a precious lot of money before he was done with it; but that would be an advantage as it would perhaps prevent the plaintiff going to law again. He would grant an adjournment for the defendant to attend the court. The plaintiff would, in the meantime, pay the witness now present 2*l*. for his costs of attendance, the difference in the sum being accounted for by the fact that he was not a professional man, such as his brother, the defendant, was.

The plaintiff desired to protest against the whole proceedings.

Mr. Commissioner Kerr: I don't care a farthing for your protests, sir. You wanted an adjournment; now you will take the consequences.

The plaintiff repeated his objection to the defendant's brother appearing.

Mr. Commissioner Kerr: The statute says I can hear him. You don't know the statute.

The Plaintiff: I am a layman; not a solicitor.

Mr. Commissioner Kerr: That does not matter. When a foreigner lands at Dover he is supposed to know the whole law of England contained in many volumes of statutes and reports, although he does not know a word of English. (Laughter.) You are in the same position. You are supposed to know, but you don't.

The Defendant's Brother: It was for the sake of—

Mr. Commissioner Kerr: Don't talk, please! We don't allow talking here. Get into Parliament if you want to talk. (Roars of laughter.)

The case then stood adjourned.

PROVIDENTIAL.—"I'm sorry to hear, John, that you've lost your wife. But is it true that you had no doctor?" "Ay. It came about this way; a fortnight syne I was ill and gaed to the doctor. He gied me a bottle, but when I wan home I was better, so I didn't use it. When the wife took sick, I gied her the draught, and she died by mornin'. Isn't it a mercy I didn't tak' it mysel'?"

## Bankruptcies and Failures.

*Re DRAPER WELCH BARDILL, 21 Rose Hill Street, Derby, late Director of a Limited Company.*

FROM the Official Receiver's observations, it appears that the debtor commenced business as a chemist at St. Peter's Street, Derby, about twelve years ago, without capital; but he borrowed 250*l.* from his father, which he has since repaid. His business for some time was a prosperous one, and subsequently he opened a shop at Burton, and two other shops at Derby. In February, 1892, he agreed to sell the business to a limited company, which was formed for the purpose of carrying it on under the style of D. W. Bardill & Co. (Limited). The business was taken over as from July 31, 1891, the company agreeing to pay the debtor's trade debts to the amount of 2,942*l.* 17*s.* 6*d.*, to pay him 500*l.* in cash, and to allow him shares to the amount of 2,540*l.* Debtor acted as director of the company, and from July 31, 1891, was paid a salary of 350*l.* per annum. The company's business was not successful, and on March 29 last it was decided to wind it up under a voluntary liquidation. The following are creditors:

	£ s. d.
Bardill & Co. (Limited), Derby .. .. .. ..	52 0 0
Bennett, S., Derby .. .. .. ..	16 13 2
Beswick, T., Derby .. .. .. ..	24 0 0
Bierstein, Derby .. .. .. ..	13 0 0
Boam Brothers, Derby .. .. .. ..	17 5 7
Briggs, Wm. (exors. of), Derby .. .. .. ..	10 7 0
Brown, A., Derby .. .. .. ..	10 9 2
Hart, W., Derby .. .. .. ..	31 10 0
Payne, London .. .. .. ..	10 0 0
Welch, C., London .. .. .. ..	22 0 0
Partly secured creditors (estimated value of securities, 180 <i>l.</i> ) .. .. .. ..	722 13 0
Preferential creditors .. .. .. ..	11 4 9

*Re ARTHUR FRENCH ST. GEORGE, Marine Street, Bermondsey, and Earlswood, chemist and electrician.*

AT a sitting of the London Bankruptcy Court held last Tuesday before Mr. Registrar Linklater, the bankrupt passed his public examination upon accounts showing total liabilities 1,032*l.*, and a deficiency of 52*l.* He stated in reply to Mr. Pope that he had failed on two previous occasions, and had not attended for public examination in the latter case, because he received no notice of the hearing. Since the last failure he had been engaged in perfecting certain inventions, and had taken out patents for them. The inventions related to oils, varnishes, glycerine, an incandescent lamp, and other matters. His friends had advanced him money for the furtherance of the designs, and for his maintenance whilst engaged upon them, the only condition imposed being that he should repay them if the patents were taken up.

*Re ALAN KIRK, late of St. Martin's Lane, W.C., trading as the Electro-medical Apparatus Company.*

THIS bankrupt attended last week before Mr. Registrar Brongham at the London Bankruptcy Court, and applied to pass his public examination upon accounts showing debts 323*l.* 2*s.* 2*d.*, and assets 3*l.* 10*s.*

Questioned by the Official Receiver, the bankrupt stated that he was now only 24 years of age. In July, 1892, his father bought for him for 400*l.* one-third share in a business of medical electricians, and subsequently lent him 80*l.* to enable the share to be increased to one-half. The business was carried on at St. Martin's Lane under the style of the Electro-medical Apparatus Company, and was continued until September, 1893. By that time the money had come to an end, and the landlord distraining for his rent, the stock was sold to pay out the execution. The partner, H. N. Lawrence, was now believed to be in America. Witness's father held possession of a portion of the stock in consideration of having paid out the execution, and of his claim for the loan of 80*l.* for which the firm's I.O.U was given. In November, 1893, witness resumed business at

Powis Street, Woolwich, and Leicester Square, both of which places were relinquished last May. Since then he had travelled for a firm on commission. The partnership business was hopelessly insolvent when it was closed, and having regard to the outstanding partnership debts, witness had been insolvent ever since.

The examination was ordered to be concluded.

## Gazette.

### PARTNERSHIPS DISSOLVED.

**Hervey, C., and Welch, J.,** Salford and Manchester, manufacturing chemists and dry-sifters, under the style of Hervey, Peck & Hervey.

**Hogarth, C. W., and Williams, H. B.,** Ashford, Kent, physicians and surgeons, under the style of Hogarth & Williams.

### THE BANKRUPTCY ACTS, 1883 AND 1890.

#### ADJUDICATIONS.

**Armstrong, Thomas William,** Carlisle, late aerated-water manufacturer, now out of business.

**Bayes, James,** Kettering, veterinary surgeon.

**Birch, George William** (trading as Huskisson & Co.), Birmingham, oil, colour, and varnish manufacturer.

**Gould, Henry,** Manchester, physician.

**Murphy, George Wyndham** (described in the receiving order as G. Wyndham Murphy), Gloucester Crescent, Hyde Park, W., surgeon.

**Roberton, Henry Matthew,** Henley-on-Thames, late East Street, Walworth, S.E., chemist and druggist.

#### ORDER MADE ON APPLICATION FOR DISCHARGE.

**Holdom, George,** Fenny Stratford and Snow Hill, E.C., veterinary medicine manufacturer—discharge suspended for three years, ending June 14, 1897.

## Business Changes.

MR. SCOTT's chemist's business in the London Road, Southwark, is closed.

MR. E. BISHOP, chemist, of Lewisham Road, S.E., has sold his business to Mr. T. Marratt.

"BISHOP'S DRUG COMPANY," of Holloway Road, N., and Folkestone, are about to open a branch at Dover.

MR. S. A. REMFRY, chemist, has purchased the business of Mr. Strongitharm at Loampit Vale, Lewisham, S.E.

MR. T. JOY, chemist, has purchased the business of Mr. Smith, chemist, at Newton Parade, High Road, Lce, S.E.

THE firms of Lynch & Co. and Baiss Bros. & Co. are now represented in Jersey by Mr. H. C. L. Broadhurst, who has offices in King Street.

MESSRS. J. F. MACFARLAN & CO. are about to remove their London offices from Coleman Street to more commodious premises at 9 and 11 Moor Lane, Fore Street, E.C.

THE business of Mr. G. E. Norrish, at 77 Atlantic Road, Brixton, has been taken by Messrs. Knight & Milne, from the Army and Navy Stores (not Messrs. Clarke & Milne, as previously stated by us).

MR. CHARLES U. RENDALL (from Mr. Charles Rendall's, chemist, Southampton) has taken premises at the corner of New and Craig Streets, St. Helier, Jersey. Here he will shortly open as homoeopathic chemist, with a full supply of medicines and sundries.

MR. A. F. DAWSON, for many years manager to Messrs. J. F. Macfarlan & Co., chemists, North Bridge, has acquired the business which has, for the last twenty-two years, been carried on in Deanhaugh Street, in the Stockbridge district of Edinburgh, by Mr. E. H. Gray. Mr. Dawson is refitting the establishment. A new pharmacy has lately been opened in the same district by Mr. David Mason, who was at one time assistant to Mr. William Aitken, Edinburgh.

## Pharmaceutical Society of Great Britain.

We have received from the Registrar of the Pharmaceutical Society of Great Britain the following list of candidates, who were granted certificates at the July meeting of the London Board of Examiners:—

### Minor Examination

Adams, Wm. Wright, Birmingham	Hick, Wm. Henry H., London
Ahier, Ernest, Jersey	Holmes, John, Bradford
Allen, John Harry S., Leicester	Horton, William John, Woburn
Averill, Morris, Stafford	Hough, Thomas, Northwich
Aves, Ernest Harold, Mansfield	Hughes, Job, London
Baker, John James, Jersey	Jarvis, Samuel Horace, Leicester
Baker, Wm. Chas., Edinburgh	Jennings, Cornelius, Birmingham
Barker, Robert, Mold	Jennings, Henry G. H., Buiwell
Beckwith, John Batty, Liverpool	John, Alfred, Swansea
Berrill, Edith Annie, London	King, Ebenezer Thomas, Reading
Bloor, Fredk. Arthur, Southport	Kitley, Sydney, Bath
Blunt, Henry Rowland, Birmingham	Knight, George Thomas, Halesowen
Blyth, Isabella, Sunderland	Lawson, Albert Edwd., Shrewsbury
Bostock, John, Wrexham	Lee, John Cuthbert, Wainfleet
Boyce, H. G., Downham Market	Lewis, David Evan, Cardigan
Brown, Harry Samuel, Spalding	Little, Thomas, London
Breese, John Soley, Llanidloes	Lloyd, Henry Morgan, Dowlais
Buckingham, Harry, Coventry	Lodder, Arthur Edward, Reading
Burgess, Sydney Robert, Luton	Male, Elliott Wm. Graves, Soham
Burland, Walter Vincent, York	Marsh, Alfred Edward, Luton
Burnage, Wm. Arth., Newport, I.W.	Nicholls, Ralph, Devonport
Burrell, Benjamin Lawson, Leeds	Nichols, William Hartley, Leeds
Burrows, Harry, Southgate	Oldham, Harry, Hyde
Cadman, Charles T., Blackheath	Parker, Herbert Charles, Stamford
Cariss, William, York	Paternoster, Wm. C. T., Cirencester
Chester, Charles Henry, Kettering	Perrett, Henry John, London
Clarke, Thomas Cooper, Coventry	Pitt, Charles Frederick, Bristol
Clarke, Thomas Joseph, Derby	Pitt, Geo. Metford F., Bristol
Coleman, John H., Wolverhampton	Potter, Thos. Burbidge, Leicester
Cooch, William A. B., London	Priestley, Dawson Smith, Bradford
Cooper, George Henry, Oldham	Prior, James Siddall, Manchester
Cranston, Edward, New Barnet	Richards, Emrys, Pontypridd
Cross, Lonis Aribald, Cambridge	Richardson, John Ffai, Liverpool
Cundall, Thomas B., Pocklington	Rymer, Frederick V., Northampton
Dales, Edward, Louth	Sadler, Walter, Tamworth
Daniels, Joseph William, Landport	Shattock, John Bellett, Bradford
Darling, George William, Datchet	Shorthouse, Herbert S., Birmingham
Davies, David Evans, Pontypridd	Simpson, James II., Market Drayton
Delaney, Edwin Louis, London	Skeates, Frank, Bath
Donthwaite, J., Prudhoe-on-Tyne	Smedley, Walter G., Northampton
Edwards, Daniel, Pontardulais	Smith, Philip, Luton
Ellington, Chas. Sampson, Rochester	Sonley, Walter, Littleborough
Elwell, Frederick Budd, Landport	Spinney, William F., Bournemouth
Endall, Edward Albert, Brighton	Sproston, Francis John, Ardwick
Evans, Evan Castle, Llanarth	Stanton, Frank Leonard, Bridgnorth
Faulkner, William, Newark	Stow, Norman V., Castle Northwich
Feilhouse, Arthur George, Rugeley	Sutton, John, Newport, Mon.
Feltwell, John Greenwood, London	Tapper, Chas. Albert Henry, Bristol
Flood, Fanny, London	Thomas, Charles H., Shepton Mallet
Gaul, Ernest George, London	Thomas, Hugh Wolsey, Blaenavon
Gledhill, William, Stenton	Thorne, Alfred J., Tunbridge Wells
Greenhalgh, Edmund P., Bolton	Tims, Edgar Orlando, Leicester
Hagne, John, Lincoln	Townsend, William Alfred, Bristol
Hall, Jaspar Longdon, Wirksworth	Trounson, Herbert James, London
Harlin, George Albert, Landport	Turner, John Arthur, York
Hartland, Charles, Oldbury	Vogt, George, Kendal
Hawes, John G. H., Chichester	Ward, George Stafford, Gloucester
Haythornthwaite, W., Giggleswick	Ware, Alan Henry, Exeter
Heeke, John William, London	Wharram, Thomas Barnard, Naburn
Hendry, Fred Harry, Hull	Wolstenholme, Austin Whaley, York
Hewlings, Wm. R., Littlehampton	Wright, Edward, Peterborough

THE July quarterly examinations at Edinburgh concluded on Saturday, July 21, with the following results:—

### Major Examination.

Highfield, Henry, Sheffield

Turner, John Wm. Jas., Sheffield

### Minor Examination.

Allen, John Wilfrid, Liverpool	Mitchell, William, Manchester
Arnddel, Edmund, Manchester	Murray, Alexander, Edinburgh
Beachell, John, Sheffield	Napper, Ernest Henry, Bowdon
Bickle, William John, Sheffield	Openshaw, John Wm. W., Blackburn
Bradford, James, Edinburgh	Parry, Lewis, Liverpool
Burgess, Fredk. Wm., Wigan	Paterson, Alexander, Edinburgh
Burnett, Chas. Johnson, Edinburgh	Paterson, Andrew John K., Doudee
Clay, Arthur, Liverpool	Pirie, George Finlayson, Edinburgh
Comrie, Wm. Reed, Edinburgh	Reid, Alexander, Glasgow
Craig, Wm. Reid, Glasgow	Richardson, S., Stockton-on-Tees
Dalkin, Thomas, Newcastle-on-Tyne	Robinson, Edward George, Sheffield
Dent, John, Manchester	Rook, Moses, Manchester
Fairweather, Jas. Young, Edinburgh	Rothwell, Wm. Thomas, Biry
Forbes, Charles, Edinburgh	Rowland, Sidney C., Wrexham
Forbes, John Johnson, Edinburgh	Smith Wm., Edinburgh
Garnett, Chas. Holmes, Edinburgh	Somerville, George, Edinburgh
Handley, John Wm. Peter, Rochdale	Sanley, Edward T., Liverpool
Harper, Theophilus, Belfast	Stoddart, Thomas, Manchester
Hay, Wm. Fowlie, Edinburgh	Strother, A. E., Newcastle-on-Tyne
Hirst, Edward, Colne	Stuttard, Thomas, Burnley
Hollingworth, Oliver A., Barnsley	Sutherland, John Geo., Sunderland
Innes, James, Edinburgh	Symington, Jas. Martin, Birkenhead
Iunes, Richard Langlands, Glasgow	Turner, Calvert, Alfreton
Keluch, John Thomas, Bolton	Walburn, Arthur Wm., Edinburgh
Kitechin, George Shiach, Glasgow	Warnock, Wm. Scott, Glasgow
McCutecheon, David, Glasgow	Williamson, Andrew A., Edinburgh
M'Kenzie, Alex. T., Leamington Spa	Wilson, James Munro, Edinburgh
Milne, Alexander, Edinburgh	Young, Jas. Clements, Manchester
Mitchell, Donald, Edinburgh	

### Marriages.

**HARVEY—DENTON.**—On July 21, at St. James-the-Less, Plymouth, by the Rev. James Embry, Alfred Hugh Harvey to Florence Denton, youngest daughter of the late Henry Denton, chemist and druggist, Plymouth.

**PRATT—PRIEST.**—On July 17, at Christchurch, Turnham Green, by the Rev. Perey J. Donovan, M.A., Alfred James Pratt, chemist and druggist (of the firm of Cruse & Co., Southsea), to Matilda, youngest daughter of the late William Henry Priest, of Fairoaks, Bromley, Kent.

**ROSE—CROUCH.**—On July 21, at St. Ann's, Nottingham, by the Rev. Canon Lewis, M.A., vicar, Alfred Rose, chemist and druggist, of Edgware Road, W., to Rose, second daughter of the late Charles Crouch, of Lindum House, Nottingham, and Oldberrow, Worcestershire.

### Deaths.

**FISHER.**—On July 23, at Bank Street, Carlisle, Mr. John Fisher, chemist and druggist. Aged 70. The deceased gentleman took an ardent interest in the otterhounds, which he followed in Cumberland for over half a century. As one of the old townsmen of Carlisle he was greatly esteemed alike in business and social relations.

**GRAY.**—At 16 Deanhaugh Street, Edinburgh, on July 18, Mary Maekenzie, wife of Ebenczer Hay Gray, chemist.

**GUDGEN.**—On July 16, at Kimbolton, Hunts, George Burnham Gudgen, pharmaceutical chemist, very suddenly, in his shop, from apoplexy. Aged 71. The deceased gentleman was in business at Kimbolton upwards of forty-seven years.

**JONES.**—On July 17, Mr. Thomas Jones, of Clive Place, Oswestry. Aged 94 years. Mr. Jones was for many years in business as a chemist, and retired about thirty years ago. He was for a long period a member of the Oswestry Town Council, and once filled the office of mayor. He was placed on the Commission of the Peace for the borough in 1881.

**ROGERS.**—July 18, at S.D. and E.C. Hospital, Caroline, wife of Robert Rogers, chemist and druggist, 2 Boardman Villas, Laira, and Public Dispensary, Plymouth. Aged 52.

## New Companies and Company News.

**R. WHITE & SONS (LIMITED).**—Capital 300,000*l.*, consisting of 20,000 Six-per-cent. Cumulative Preference shares of 5*l.* each, and 40,000 Ordinary shares of 5*l.* each. They offer to the public an issue of 100,000*l.* Five-per-cent. First Mortgage Debenture stock. The company has been formed for the purpose of acquiring the business of Messrs. R. White & Sons, manufacturers of mineral and aerated waters and cordials, Camberwell.

**SHROPSHIRE OIL AND SOAP WORKS (LIMITED).**—Capital 15,000*l.* in 1*l.* shares. Objects: To carry on at Stirchley, Salop, the manufacture of oils, manures, horse fats, horse phosphates, and soft soap, &c. The first subscribers (who take one share each) are: W. F. Copland, Brockley, accountant; S. B. Gaw, 111 Beresford Street, Camberwell, S.E., clerk; W. Rowley, 11 Candahar Road, Battersea, clerk; F. Moon, 13 Marquis Road, N.W. clerk; W. A. Penwill, 70 Dalyell Road, S.W., bookkeeper; W. Parrish, Forest Gate, accountant; C. Jephson, 39 Horsell Road, Drayton Park, stenographer. The first directors are to be appointed by the subscribers. Qualification 100*l.* Remuneration 100*l.* each, and chairman 150*l.* per annum.

THE directors of the Sanitas Company (Limited) have declared an interim dividend at the rate of 10 per cent. per annum for the six months ended June 30 last, free of income tax, payable on and after September 1 next.

**PARKE'S DRUG-STORES (LIMITED).**—The *Financial News* criticises rather sharply the prospectus lately issued by this company, which takes over certain established chemists' shops in Brixton, Clapham, and Peckham, and proposes to open other stores in "London, the suburbs, provinces, and elsewhere." The vendor is to receive 5,000*l.* in cash, 12,000*l.* in ordinary shares, and 3,000*l.* in deferred shares, the latter of which are not to rank for dividend with the ordinary shares until for five successive years the company shall have earned an average profit sufficient to pay the full dividend on the preferred and 10 per cent. on the ordinary shares. Our contemporary remarks:—"According to the certificate furnished, the Brixton business made a net profit of 1,170*l.* in twelve months, the Clapham one a profit of 662*l.* in twelve months, and the Peckham one a profit of 106*l.* in fifteen months, after all the preliminary and other expenses connected with the opening had been paid out of revenue. Taking the average at 600*l.*, it is calculated that forty stores will result in an annual profit of 24,000*l.*, which, after deducting 3,000*l.* for management fees, &c., leaves 21,000*l.* for dividend—enough for 6 per cent. on the preference and 31 per cent. on the ordinary shares. The assumption that forty businesses are going to make an average net profit of 600*l.* is so particularly sanguine that the promoter ought to have lowered himself a little with Friedrichshall or Hunyadi Janos before committing it to the prospectus. At present, however, it is not intended to issue more than 50,000*l.* of capital, which will give the directors 30,000*l.*, or enough for the establishment of thirteen new stores. After these have been opened it is proposed to issue another 50,000*l.*, and establish twenty-four more stores. Thus, obviously, the shareholders will have to wait a long time before the business earns the expected 24,000*l.* a year profit. Meantime, they are asked to give, in cash or shares, 20,000*l.* for the existing stores, and the amount is thus made up: Stock in trade, 5,433*l.*; furniture and fittings, 3,377*l.*; other assets, representing the profits since July 1, 1893, and the value of the leases and goodwill, 11,190*l.* There is no valuation of either stock or furniture, but as to the profits the vendor guarantees they shall be, for the year ended July 1, 1894, in excess of those for the preceding year; but what they were in the preceding year does not appear. The accountants' certificate is dated October 30, 1893, and refers to periods of twelve months, twelve months, and fifteen months respectively, though when these periods began and when they ended is not stated. Assuming that the certificate may be taken to cover "the preceding year," the guaranteed profit for last year would need to be in excess of 1,939*l.* only; yet for it,

the goodwill, and the leases 11,190*l.* is to be paid. It looks as if the goodwill figured at a pretty high price, considering that the oldest of the businesses has only been opened a little over three years.

## AT THE COUNTER.

THIS occurred in South London the other day:—"1*d.* worth liquorice-powder, and please will you put a ha'penny of it in this box?" (a Missionary-box).

A STOURBRIDGE CHEMIST reports the following:—"Take her to Pershore and kiss her," was the nearest a countryman could get to "Gutta-percha Tissue," a few minutes since here.

THIS is how they write at a fashionable resort in Derbyshire:—"John's wife has got an ulcer in her throat." "Kindly give my little boy twopennyworth of antebilin for pains in the head." "Fuled of magnesia." "Hykerfortis."

AN ancient rustic entered a pharmacy in North Devon the other day, and whilst making her purchase dropped her eyes on a counter-hill, and, noticing the name of the proprietor, — (late Cotton), innocently inquired, "I see you keep cotton here; do you sell thimbles?"

A PETERBOROUGH chemist gets the following order from one of his customers. "Please to send the Measter and not the whas." He dispensed the mixture but not the lotion. Among other orders he sends us is one for a "nihil glass," one for "cetagasis for chilblains," and one for "ricketty dentifris for the teeth."

QUAINT QUERIES IN KNARESBOROUGH.—"Something for a horse's test-tubes" (cough-ball supplied); "1*d.* Pheasant's cooling powder"; "1*d.* of borax and onions"; "1*d.* of sheep's black" (lamp); "6*d.* bott. Jack o' Clubs"; "2*d.* box Peter-rum jelly"; "1*d.* o' wax for clagging wi'" (sealing-wax); "An oz. of consecrated cocoanut" (desiccated).

A QUININE TRANSACTION.—Scene: Chemist's shop near the Strand. Enter a gent, apparently a member of the music-hall profession. Gent: "Give me a dose of quinine! Is it good for the toothache?" Chemist replies in the affirmative, upon which gent exclaims excitedly, "Don't give me more than two grains." Two grains having been carefully weighed out, gent says, "I'll take half now, and please wrap the rest up in paper." He also requests the dose he is about to take be dissolved and slightly sweetened; when, having swallowed it, received his packet and remarked on the weather, &c., he places on the counter one penny, which the astounded chemist mechanically takes, and before he recovers the customer has vanished.

THE Cheshire Coroner, on Tuesday, resumed the investigation of a poisoning mystery at Over. The evidence showed that Jane Finney (21), unmarried, factory-worker, came home on Monday week, went to bed, and died suddenly. She had previously gone to a chemist and purchased turpentine and pills, but what kind of pills did not transpire. Dr. Okell and Dr. Leach, on the post-mortem examination, found death due to irritant deadly poison. The deceased was *enceinte*, and had kept company with a young man. The contents of the stomach were preserved, and ordered to be sent to Professor Davies, Liverpool. Mr. Pickering, chemist, who had served deceased, now volunteered a statement, but the coroner refused to make him a witness after what had transpired. It was a most important case, and the jury could not proceed further without the evidence of a first-class analytical chemist as to the nature of the poison that had caused death. The inquest was adjourned for the analysis to be made.

## Scientific Notes:

*Chemistry, Pharmacy, Botany, Materia Medica, &c. Original, Selected and Translated.*

### THE ESTIMATION OF CHLORINE IN BLEACHING-POWDER.

A CORRESPONDENT in the *Chemical Trade Journal* calls attention to the fact that in titrating with hyposulphite a slight error occurs, due to the iodine liberated combining with the free  $\text{Ca}(\text{OH})_2$  in the solution to form  $\text{CaI}_2$  and  $\text{CaO}_3$ .

### SIMPLE METHOD OF STERILISING WATER.

M. TRAUBE states that if  $\frac{1}{2}$  milligramme of chloride of lime be added to each 100 c.c. of water all micro-organisms are destroyed within two hours. The chlorine may then be neutralised by sodium sulphite, and after treatment the water has a pure taste and perfectly neutral reaction.

### TO DETECT GLUCOSE IN HONEY.

GLUCOSE always contains dextrin, while genuine honey contains none. To detect dextrin a solution of 1 part of the honey in 2 parts of water is decolorised by warming for five minutes with 2 per cent. of animal charcoal. Five or 10 c.c. of the decolorised liquid is then placed in a test-tube and covered with a layer of absolute alcohol. A turbidity at the zone of contact indicates dextrin, and, therefore, glucose.—*New England Druggist*.

### REAGENT FOR THE NITRITES.

O. BUJWID, in the *Chemiker Zeitung*, states that the following reagent is very delicate, demonstrating the presence of the merest traces of the nitrites in water analysis:—Add a few drops of chemically-pure hydrochloric acid to 10 c.c. of the water, warm to  $70^{\circ}$  to  $80^{\circ}$  C., and add a few drops of indol solution (0·1–0·2 indol in very dilute alcohol) to the mixture. If trace of the nitrites be present a fine red colour at once develops, which gradually becomes deeper.

### STABILITY OF SOLUTION OF HYD. PERCHLOR.

M. BURCKER finds that a solution of bichloride of mercury in ordinary water is unstable if the solution be exposed to light or air. Decomposition occurs, and the solution gradually weakens. This is due to precipitation of the mercury by the ammonia and organic matters contained in the water and air. In the absence of light and air no change occurs, and if distilled water be used no decomposition occurs even if the solution be exposed to both light and air.

### DETECTION OF SALICYLIC ACID IN FOODS.

THIS method is specially useful for the examination of tinned foods. The contents are triturated in a mortar with a little water and dilute phosphoric acid, filtered through a bag and the filtrate distilled. The first fractions contain practically nothing, the salicylic acid coming over later. The distillate may be collected in Nessler jars and estimated colorimetrically with ferric-chloride solution. The process is equally well adapted for wines, as pointed out by Ince some time ago.—*Journ. Soc. Chem. Ind.*

### DETECTION OF BILIARY PIGMENTS IN URINE.

M. JOLLES, of Vienna, gives the following process, which is said to detect as small an amount as 1 in 1,000:—Introduce 50 c.c. of the urine into a separator, and add to it a few drops of dilute hydrochloric acid and 5 c.c. of chloroform. Shake well, and allow the chloroform to separate. Draw it off, and evaporate on a water-bath. The residue will be much coloured even if only traces of bile are present. On adding a few drops of strong nitric acid to the residue, the characteristic rings given by bile are produced.

### EXTRAORDINARY SAMPLE OF WATER.

In the *Chemical News* for July 6, Dr. Phipson publishes a note on an extraordinary sample of water. The sample had been obtained from a reservoir attached to a gentleman's house, and had a bitter taste and strong alkaline reaction. Examination showed it to contain a large amount of caustic lime—100 grs. to the gallon. In other respects it was

normal. The lime was found to be dissolved by the water from the hydraulic cement used to line the reservoir. A similar case occurred at the Royal Aquarium some years ago.

### THE DETECTION OF COTTON IN SILKS.

THIS can be readily accomplished with the aid of the microscope by taking advantage of the fact that silk is readily soluble in a solution of nickel hydroxide in ammonia. A piece of the fabric is placed under the microscope and the slide flooded with the reagent when the silk completely dissolves in about two minutes. Neither cotton nor wool are affected. The process may be used for quantitative estimation of the amount present. A weighed piece is left in the solution three or four minutes, withdrawn, rinsed, dried, and again weighed. The difference gives the amount of silk present. In treating plush by this process the solution should be boiled for ten minutes.

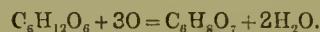
### DETECTION OF COPPER IN GREEN PRESERVES.

A. TSCHIRCH (Zeit. Anal. Chem. 34, 103) gives the following process for determining whether the green colour in certain preserved foods is due to chlorophyll or to copper phyllocyanate.

An alcoholic extract is evaporated to dryness, the residue washed with water, and then treated with concentrated hydrochloric acid. Pure chlorophyll gives a deep-blue solution, and a residue soluble in ether with a brown colour, but hydrochloric acid dissolves only a small amount of a yellow substance when copper phyllocyanate is present, and the residue dissolves in alcohol with a green colour. If dilute hydrochloric acid is added to the alcoholic solution, a green colour indicates copper; used in its absence, the mixture is yellow.

### CITRIC ACID FROM SUGAR.

IN the course of some experiments on the formation of oxalic acid by fungi, C. Wehmer has discovered a genus which has the power of converting carbohydrates into citric acid. He describes two species, *Citromyces Pfefferianus* and *C. glaber*. The action is due, firstly, to oxidation of the carbohydrate, and depends on the presence of oxygen. The most favourable medium is a solution of cane-sugar. The change may be thus expressed by an equation:—



This method of production is now being worked, and, in addition to its scientific interest, will be of considerable commercial importance.

### ACTIVE PRINCIPLES OF ERGOT.

ACCORDING to Keller (*Pharm. Zeitung*, xxxix. p. 361), the active principle of ergot is a crystalline alkaloid, which readily forms neutral salts. It is sparingly soluble in ether, readily soluble in alcohol and chloroform, and insoluble in petroleum ether and water. It may be extracted by the following process:—Powder the ergot and extract with petroleum ether to remove fatty matter; dry the powder, mix with a little magnesia, damp with water, and extract with ether; then shake out the alkaloid in the usual way. Although ether is not the best solvent, it is easier to work with, as it does not form an emulsion, like chloroform, with the aqueous liquid. An alcoholic solution of the alkaloid exhibits a blue fluorescence, especially if slightly acidulated. Mixed with strong sulphuric acid, a yellow solution is formed, which changes to blue after some time. Mixed with sulphuric acid and a drop of perchloride of iron solution added an orange-red solution, passing to a deep red, is formed. These reactions have been already pointed out, and given as tests for bodies extracted by other workers. The "ergotinine" of Tanret, the "picrosclerotine" of Drägendorff and Blumhorg, and the "cornutine" of Kobert all give these reactions, from which M. Keller infers that these bodies are one and the same, but in varying states of purity. He proposes to retain the name "cornutine" for the alkaloid extracted and purified by himself. As this alkaloid is insoluble in water, it follows that the Pharmacopœia process for the preparation of "ergotine" is valueless, and in the new Swiss Pharmacopœia 70-per-cent. alcohol is substituted as a menstruum for extracting the ergot. The process for extraction of the alkaloid is equally applicable for assaying the extract.

## Medical Gleanings.

### TO STERILISE CATHETERS.

A SOLUTION of sulphurous acid is said to be the best method to adopt. It acts rapidly, and no deleterious effects result.

### ICHTHYOL

is recommended by Dr. Viletti in gonorrhœal urethritis; it is microbicidal and anodyne. He uses a solution containing from  $2\frac{1}{2}$  to 5 per cent.

### TEST FOR PUS IN URINE.

DROP into urine in a test-tube, a few drops of the tincture of guaiac, heat it to about  $100^{\circ}$ , and if it turns pale blue, pus is present in the urine.

### CURE FOR DRUNKENNESS.

HALF a teaspoonful of ammonium chloride in a goblet of water is said to restore a drunken man to his mind and physical powers.—*Gaillard's Medical Journal*.

### FOR INSECT BITES.

Liq. ammoniae fort.	..	..	..	..	3ij.
Collodion	..	..	..	..	3j.
Acid. salicylic.	..	..	..	..	gr. viij.

M.

Apply a few drops to each bite.

—*Med. Press.*

### TO REMOVE FOREIGN BODIES FROM THE EAR.

A WRITER in *La Semaine Médicale* recommends the application of warm oil. A few drops to be placed in the ear, and the patient directed to lie on the injured side. Under these circumstances the foreign body is spontaneously expelled.

### FOR SCIATICA.

	Grammes.				
Tinet. aconiti rad.	..	..	..	..	4
Tinet. colchici sem.	..	..	..	..	4
Tinet. belladonnae	..	..	..	..	4
Tinet. cimicifuga	..	..	..	..	4

M.

Sig.: Twelve drops every four to eight hours.

### FOR NEURALGIA.

Quinine valerianatis	..	..	..	..	gr. x.
Tinet. sambuci	..	..	..	..	3ij.
Extracti taraxaci liq.	..	..	..	..	3vj.
Infus. caseariae ad	..	..	..	..	3vj.

M.

Sig.: A dessertspoonful three times a day.

—*Medical Press.*

### "CARBOLISED COLLODION."

THE following formula is a good one for the preparation of "carbolised collodion":—

Acidi carbolici	..	..	..	..	..	3iss.
Olei ricini	..	..	..	..	..	3iss.
Collodii	..	..	..	..	..	3j.

M.

### FOR CHRONIC HEADACHE.

Arseniate of sodium	..	..	..	..	gr. ss.
Sulphate of atropine	..	..	..	..	gr. ss.
Extract of aconite	..	..	..	..	gr. viiss.
Powdered cinnamon	..	..	..	..	q.s.

Mix and make into thirty pills.

Sig.: From one to four pills daily.

### FOR DIARRHOEA IN CHILDREN.

Tinet. campli. co.	..	..	..	..	mxvij.
Bismuth. subnit.	..	..	..	..	3ij.
Syr. limonis	..	..	..	..	3ss.
Mist. eretie	..	..	..	..	3iss.

M.

Shake well, and give one tea-spoonful every three or four hours to a child one year old.

—*Med. Press.*

### USEFUL IN SLUGGISH CONDITIONS OF THE LIVER.

Podophylline res.	..	..	..	..	gr. $\frac{1}{2}$
Muonyminae	..	..	..	..	gr. iss.
Ext. belladonnae	..	..	..	..	gr. $\frac{1}{2}$
Pil. hydrarg.	..	..	..	..	gr. ij.

M.

For one pill, to be taken at bedtime.

### TRICHLORACETIC ACID.

THIS acid is strongly recommended by Dr. Pierce for removing tartar from the teeth. It may be used in place of scaling or after scaling to remove the last traces of deposit. A wooden spatula is saturated with the acid and rubbed over the deposit, which it at once dissolves. It may also, with advantage, be used to replace carbolic acid as an antiseptic. It is also a powerful escharotic.

### A GOOD EVAPORATING-LOTION.

Ammonii chlorid	..	..	..	..	3j.
Sp. rectificati	..	..	..	..	3ij.
Sp. aetheris	..	..	..	..	3j.
Acid. acetic.	..	..	..	..	3iss.
Aq. destill. ad	..	..	..	..	3xij.

Solve et M.

To be applied on lint in severe sprains, &c.

—*The Pharmacopœia of the Royal Infirmary, Edinburgh.*

### TRAMWAY-CAR HEADACHE.

A NEW YORK correspondent of *Medical Brief* mentions that the extension of car-lines into the remote country has brought about a new disease called "street-car vertigo." It appears that the short riders escape the complaint, while those that ride long distances suffer with it. The disease resembles sea-sickness to such an extent that nervous specialists class the two diseases as one and the same things. The disease attacks the old rather than those of tender ages. Sometimes vomiting and nausea and severe headache mark the complaint. Citrate of caffeine and bromides give good results.

### ANTISEPTIC POWDER,

for use in cases where iodoform is usually employed. It has the advantage of being odourless. The tannic acid may be omitted where its action is not required:—

Corrosive sublimate	..	..	..	4- $\frac{1}{2}$	grain
Boric acid	..	..	..	..	1 oz.
Tannic acid	..	..	..	..	10 grains
Milk sugar to	..	..	..	..	2 oz.

Mix the sublimate gradually with the sugar, and add the other powder slowly.

—*Amer. Med. Surg. Bulletin.*

### ORCHITIC EXTRACT FOR MASTURBATION.

DR. F. W. FELKIN, in a note to the *Medical Press* on the action of organic extracts, mentions that he has successfully used orchitic extract in the treatment of masturbation. He gave a young man of 23, whose health was completely shattered by the habit, an orchitic suppository (B., W. & Co.) every other night for fourteen days, then once a week for six weeks. All his troubles ceased; he put on flesh, gaining 1 st. 10 lbs. in two months; he could again follow his employment, and was able to relinquish the habit, to which he had been addicted for five years. A curious point is that the orchitic treatment failed with a lady of 28, but suppositories of cerebral extract at once calmed her, and she almost got over the habit.

### TO QUENCH THIRST IN DIABETICS.

THE following is recommended as an efficient method of keeping down the intolerable thirst in diabetes:—

Pilocarpin nitrate	..	..	..	..	gr. iss.
Glycerine	..	..	..	..	sufficient
Gum arabic	..	..	..	..	sufficient

Mix and divide into 100 pills.

The patient is directed to place the pill upon the tongue and let it slowly dissolve. This may be repeated seven or eight times in the twenty-four hours, but not oftener. The pilocarpin may also be given in solution, using dilute alcohol (about  $25^{\circ}$ ) as the solvent. The dose of pilocarpin should not exceed  $\frac{1}{60}$  grain.

## THE STRUCTURE OF MATTER.

THE most recent researches in chemistry and physics tend to confirm the opinion that matter is not infinitely divisible, but that a point may ultimately be reached at which it would become impossible to divide any further without destroying the distinctive character of matter as such. For many years the old opinions in regard to the ultimate structure of matter and the nature of molecules have been found to be unable to satisfactorily explain the known phenomena of chemical and atomic relation, especially in regard to what is known as the law of atomicity, observed in connection with the valency of elementary bodies. While there is every ground for believing that matter is not infinitely divisible, there is also ground for discarding the old notion that the ultimate structure of matter consists of hard, indivisible, and inelastic atoms, as quite inconsistent with observed phenomena of atomic and molecular attraction. Physicists are fairly agreed that the ultimate structure of matter is probably dynamical, and that the substratum of all that makes itself manifest to our senses as material is really some form of eddy or vortex formed in the luminiferous ether. This ether is supposed to be universally diffused, and not discontinuous or molecular in structure, but more like an excessively rare jelly, whose reactions form the physical basis of light and radiant heat. Vortices formed in this medium would thus differentiate the moving from the stationary portion of the ether, and since these vortices would also possess infinite elasticity and permanence as well as the power to retain and recover its original form under any action or stress, it would account in a fairly satisfactory manner for the observed reactions of matter. Fig. 1 shows how the simple vortex ring may be formed. The box contains a few drops each of  $\text{NH}_3$  and  $\text{HCl}$ , and on tapping the side of the box smartly the ring will ascend through the circular hole in the lid. The arrows in fig. 2 show the directions of the vortex currents.



FIG. 1.

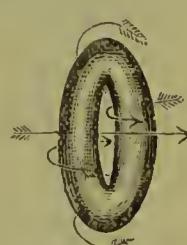


FIG. 2.

Recent researches in molecular physics have shown that it is probable that some form of evolution has obtained amongst elementary forms of matter, as well as among the varied forms of living organic structures. The researches of Crookes, Lockyer, and others seem to point to the fact that all forms of matter had their origin in one original type, which has been termed "protyle," and of which all the other elementary bodies are either polymeric or metamerous forms. No difficulty arises in our conception of the original ether, since it has long formed the basis of our theories of light, radiant heat, and electro-magnetic induction, and probably of gravitation itself. The difficulty arises when we attempt to conceive the nature of the etherial vortices which constitute the atoms and molecules of which matter as we know it is built up. This vortex theory of matter was first suggested by Lord Kelvin, when studying the play of simple vortex rings formed as above described, and his hypothesis in regard to these, and the results of experimental researches with them, give all the phenomena which will account for much of the behaviour of ordinary matter. In an imperfect fluid like air such a vortex-atom must be

the result of friction, but in a perfect fluid such as the ether it could only originate by a special creation of some kind, and once created would be absolutely indestructible, except by an act of annihilation as destructive as that which determined its origin. This vortex-atom could move about in the ether, and its volume and mass would be invariable. If struck by another atom it would be indivisible, but would present perfect elasticity, and though momentarily distorted would recoil and oscillate about its mean form, and thus be capable of harmonic vibration, as the spectroscope shows the particles of matter to be. It could also change its form and position, and such vortex-atoms would fully account for the open structure of matter which allows light, electric and magnetic stresses and the action of gravity to be transmitted through it. Such simple vortex-rings do not, however, account for the possible evolution of the various elementary forms of matter; but they do form the basis of further hypothesis, and help our conception of a possible form of evolution. The elementary vortex rings may, in place of being simple, have any number of twistings, and will retain these characteristics for ever when impressed on them by the original creative act, and it can be shown experimentally that if this twist amounts to 360 degrees, and from any cause fission occurs in the direction parallel to the axis of the core of the ring, it will not break up into a series of similar cylindrical rings, which are detached from each other, and free to move away from each other; but will form an interlinking system of rings without breaking their continuity. If the twist is only 180 degrees, a fission parallel to the axis would cause the ring to unfold into a ring twice the diameter and half the thickness with a twist of 360 degrees, and any further fission would result in an interlinking system of rings as before. When such a complicated system of rings is evolved by this means out of a simple form, the absolute amount of mass and energy in the system is constant, and this would be expected from the constant relation obtaining between the specific heat and atomic-weights of the elements. Although such a system of interlinking rings, where, after the original fission, the rings may rotate in any plane, will not account for chemical affinity still they may give some representation of a compound atom with increasingly high atomic weight. Notwithstanding the difficulties and anomalies which such a theory involves, it seems to give some clearer idea of the ultimate structure of matter, and as such is of the greatest interest to all who take pleasure in studying chemical and physical problems.

## THE BENGAL SHELLAC INDUSTRY.

THE French Consul at Calcutta, in a report upon the present condition of the Indian lac industry, states that the finest descriptions of stick lac are found in Assam and Bengal, that coming from the former country being a very important article of trade. Lac from Burmah, which is chiefly produced in the upper districts and the Shan States, is sent to Calcutta to be worked up. Burmah, it is stated, is in a position to supply endless quantities of lac, as the vast forests there contain many descriptions of trees adapted to its development. The districts of the Punjab and Mysore are large producers of lac, which is chiefly used at the place of production, its inferior quality rendering it unfit for exportation. Then come Bengal, Oudh, Scinde, and the Central Provinces. According to quality, it is either sent to Calcutta to be melted, or to certain towns of the interior, such as Hyderabad and Mirzapore, for working up into bangles and other articles. There are large numbers of lac factories in India, but most of them are of little importance, and only turn out products of very second-rate quality. The methods of manufacture vary according to district. In hat-making, a mixture of lac, mastic pounce, and other resins, dissolved in alcohol, is used to stiffen silk hats, and in lithography lac is used in connection with the preparation of the ink. Mixed with resin and certain colouring material it makes sealing-wax. Lac also enters into the composition of numerous varnishes. In adding to a solution of lac in alcohol a yellow clear substance such as gum gutta, saffron, &c., a liquid is obtained which gives to copper and other metals the appearance of gold, while still preserving their brightness. The quantity of lac exported in 1892-93 amounted to 125,246 cts., valued at 7,787,583 rupees. In the preceding year the value amounted to 7,444,460 rupees.

## Practical Notes and Formulae.

### MACASSAR OIL AND POMADE.

MR. ROBERT GLENK in the *American Journal of Pharmacy* has a paper on what he describes as the true macassar oil, which is prepared from the seeds of *Schleichera trijuga*, Willd., by expression or by boiling the bruised seeds in water and skimming off the oil which rises to the surface. It has in former years been imported into America, but latterly what found its way there was composed of cocoanut oil in which the blossoms of ylang-ylang, *Cananga odorata*, or of the false ylang-ylang, *Michelia champaca*, have been digested. Now, domestic oils under the same name, suitably perfumed and frequently coloured red with alkanet, have entirely replaced the natural product. Mr. Glenk received a small sample of the true oil from Mirzapoar, and found that at the ordinary temperature it is semi-solid, of a yellowish-white appearance, with a weak odour of bitter almonds. It has a mildly acrid taste, and an acid reaction to litmus-paper. It is completely liquefied at 82° F., and congeals near 50° F. The oil has a specific gravity of 0.942.

A formula for preparing a so-called macassar oil for the hair, which has given great satisfaction to those who have used it, is the following :—

Castor oil .. .. .. .. ..	3xvj.
Rectified spirit .. .. .. .. ..	3ij.
Oil of nutmeg .. .. .. .. ..	mxxx.
" rosemary .. .. .. .. ..	mx.
" sweet marjoram .. .. .. .. ..	mx.
" neroli .. .. .. .. ..	mx.
Otto of rose .. .. .. .. ..	mxx.
Tincture of musk .. .. .. .. ..	5j.
Alkanet .. .. .. .. ..	sufficient to colour

*Macassar Pomade*, made by the following formula, is also said to be excellent :—

Castor oil .. .. .. .. ..	3x.
Suet .. .. .. .. ..	3ij.
Spermaceti .. .. .. .. ..	3j.
Oil of nutmeg .. .. .. .. ..	3ss.
" sweet marjoram .. .. .. .. ..	3ss.
" rosemary .. .. .. .. ..	3ss.
Otto of rose .. .. .. .. ..	mxx.
Oil of rose-geranium .. .. .. .. ..	mx.
Alkanet-root .. .. .. .. ..	sufficient to colour

Melt the spermaceti and suet, adding the castor oil (previously coloured by digesting with alkanet), and, lastly, add, when nearly cold, the perfumes, which in this case are also the medicaments.

### VIOLET COSMETIQUE.

#### (1)

Wax .. .. .. .. ..	8 oz.
Acacia pomade .. .. .. .. ..	8 "
Tuberose pomade .. .. .. .. ..	8 "
Orris-root pomade .. .. .. .. ..	16 "
Oil of bergamot .. .. .. .. ..	1½ drs.
" geranium .. .. .. .. ..	10 drops

Melt together.

#### (2)

Suet .. .. .. .. ..	8 oz.
Wax .. .. .. .. ..	5 "
Acacia pomade .. .. .. .. ..	8 "
Orris-root pomade .. .. .. .. ..	2½ "
Mignonette pomade .. .. .. .. ..	2½ "
Oil of neroli .. .. .. .. ..	5 drops
" geranium .. .. .. .. ..	5 "
" bergamot .. .. .. .. ..	5 drs.

Melt together.

#### (3)

Yellow wax .. .. .. .. ..	8 oz.
Acacia pomade .. .. .. .. ..	8 "
Orris-root pomade .. .. .. .. ..	8 "
Violet pomade .. .. .. .. ..	8 "
Jasmine pomade .. .. .. .. ..	8 "
Tuberose pomade .. .. .. .. ..	2½ "
Oil of bergamot .. .. .. .. ..	3 drs.
" geranium .. .. .. .. ..	10 drops
" neroli .. .. .. .. ..	10

Melt together.

(4)					
Yellow wax .. .. .. .. ..	..	..	..	..	10 oz.
Acacia pomade .. .. .. .. ..	..	..	..	..	2½ "
Tuberose pomade .. .. .. .. ..	..	..	..	..	1 "
Rose pomade .. .. .. .. ..	..	..	..	..	1 "
Violet pomade .. .. .. .. ..	..	..	..	..	12 "

Melt together.

—Druggists' Circular.

### SOAP FOR LIN. SAPONIS.

A WRITER in the *American Druggist* suggests the following formula, which he has found to be satisfactory :—

Oleic acid .. .. .. .. ..	..	..	..	1,000 gr.
Caustic soda .. .. .. .. ..	..	..	..	60 gr.
Water .. .. .. .. ..	..	..	..	2 oz.

Dissolve the soda in the water and mix gradually, with constant stirring, heat moderately, and when saponification is complete set aside to cool.

This forms a hard soap, and if poured into frames can be made into bars. If the soap is desired exactly neutral the alkali must be added gradually, and only enough added so that a little of the soap dissolved in alcohol and a few drops of solution of phenolphthalein added should give only a very light pink colour.

### COCHINEAL-COLOURING.

MR. HENRY WALTERS, of Ottawa, in a paper read before the Pharmaceutical Association of Ontario, says he has tried several formulas for cochineal-colouring, and finds none more satisfactory than one used for a great many years, and sold as jelly-colouring, for which purpose it is really excellent. It is as follows :—

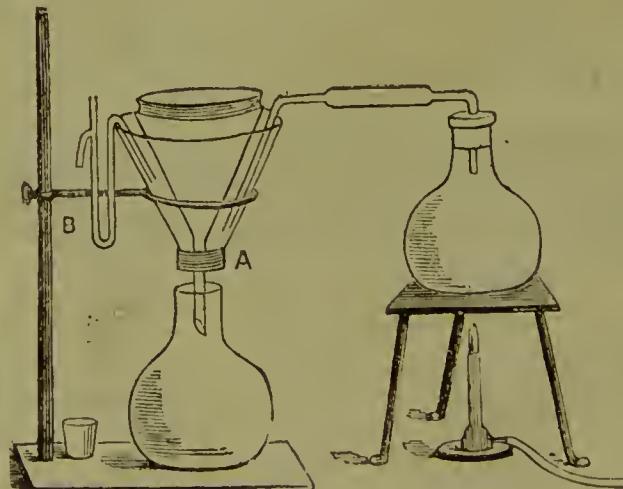
Cochineal .. .. .. .. ..	..	..	..	..	1 oz.
Potassium carbonate .. .. .. .. ..	..	..	..	..	1 oz.
" bitartrate .. .. .. .. ..	..	..	..	..	1 oz.
Alum .. .. .. .. ..	..	..	..	..	1 oz.
Water .. .. .. .. ..	..	..	..	..	14 oz.

Boil till effervescence ceases, filter and add water to make 16 fl. oz., in which dissolve 16 oz. of sugar.

—Canadian Pharmaceutical Journal

### HOT-WATER FUNNEL.

MR. CHARLES BECK, of Clifton College, describes in the *Chemical News* a simple form of hot-water funnel, which is better in some respects than the ordinary copper-jacketed funnel usually employed for filtering liquids which require to be kept hot during the process. It consists of two glass funnels fitted one inside the other by an indiarubber-plug, A,



on the neck of the inner funnel, around which the outer funnel fits as a collar. The top of the inner funnel projects somewhat, in order that the filtering liquid may be conveniently covered. The interspace contains water, which is kept hot by blowing steam into it, and the excess of water thus formed is carried away by a constant level syphon, B; a strip of wet tape hanging over the edge of the outer funnel answers the same purpose.

## TO REMOVE RATS.

A CORRESPONDENT of the *Grocer* gives the following method for clearing premises of rats:—Place in little heaps on the floor a mixture of oatmeal and castor sugar, taking great care not to touch the mixture with the hands. Repeat this for two nights, and on the third night add to the mixture an equal part of dry plaster of Paris. After eating it the rats depart and do not return. No water should be put for them.

## ARTIFICIAL AGATE.

A NEW product of a Silesian inventor, Solms-Baruth is a mixture of 100 parts of basalt, 50 of soda, 10 of borax, 20 of carbonate of soda, 80 of sand, and 1 of chloride of silver, into which, when melted, are introduced fragments of basalt, lava, scoria, ironstone, or roasted pyrites; this being followed by the addition of chloride of tin. The incomplete solution of the basalt gives to the mixture the appearance of agate, which is improved by rapidly cooling the surface.

## PILLS FOR ANAEMIA.

PROFESSOR EDLEFSEN, in *La Semaine Médicale*, recommends the following pill in anaemia:—

Iron reduced by hydrogen	..	..	..	3iss.
Powdered camphor	..	..	..	3iss.
Extra gentian	..	..	..	3iss.
Mucilage gnm arabie	..	..	..	q.s.

Sufficient for ninety pills. Two or three pills three times a day.

He has found this formula of value both in anaemia and in chlorosis, especially when they are accompanied by cardiac disturbances, such as weakness and irregularity of the pulse.

## SOAP FOR SILVER PLATE.

		Parts
Cocoanut oil	..	80
Soda ley 38°	..	40
Polishing-rouge	..	10
Water	..	10
Ammonium chloride	..	1

Mix the rouge with the water and ammonium chloride, and incorporate this with the soap, formed by heating together the oil and soda, while still warm.

## ANTISEPTIC SNUFF-POWDER.

THE following is a combination employed by Leonard A. Desser:—

Menthol	..	..	..	..	100
Tannic acid	..	..	..	..	20
Boracic acid	..	..	..	..	30
Dismuth subnitrate	..	..	..	..	20
Starch	..	..	..	..	500
Cocaine	..	..	..	..	0.5
Aristol	..	..	..	..	0.5

Sig.: Make a fine powder.

## ECZEMA IN CHILDREN.

DR. MARFAN, in *Hospitals-Tidende*, distinguishes two forms of eczema in children—a seborrhoeic and a dry and patchy form. In the seborrhoeic variety, in fat children, he reduces the amount of food and administers calomel, or removes the crusts and applies the following salve:—

Precipitated sulphur	..	..	..	..	gr. xv.
Oxide zinc	..	..	..	..	3j.
Lanoline or vaseline	..	..	..	..	3iv.

In the other form he applies locally:—

Saheylic acid	..	..	..	..	gr. j.-iss.
Starch	..	..	..	..	3j.
Oxide zinc	..	..	..	..	3j.
Lanoline	..	..	..	..	3iv.
Vaseline	..	..	..	..	3iv.

## CAUSTIC SODA FOR SOAP-MAKING.

MESSRS. CROSSFIELD & CO., of Warrington, are issuing a useful little pamphlet on this subject, containing hints of considerable value. They advocate strongly the use of caustic soda of high test for soap-making in place of the low test soda so often used. A soda containing 97 per cent. sodium hydrate, or 77 per cent.  $\text{Na}_2\text{O}$ , can be easily obtained,

and such a product is, of course, purer, and will have a great influence on the process of soap-making. All caustic soda contains sodium carbonate, the percentage varying from 8 per cent. down to 1 per cent. in a 97-per-cent. soda. This impurity, of course, reduces the value of caustic soda for soap-boiling, but more serious impurities are unconverted chloride and sulphate, and alkaline silicates and aluminates. The presence of aluminate of soda in any quantity will give a fallacious result when the alkali is titrated against standard acid with methyl orange, to determine its value, as the final point is not reached when the whole of the free alkali present is saturated with acid, but only after the soda in combination with the alumina is all saturated, and the precipitated alumina redissolved. Further, all alkalies but those of high test contain sulphide and sulphite, and these compounds are very objectionable in the recovery process of glycerine, being by no means easy to remove. Moreover, these compounds may be the cause of decolorisation and bad smell in the soap. The presence of salts in the boiling-pan is of itself objectionable, on account of the retarding influence of the salts on the process of saponification, thereby causing delay and waste; while the presence of salts in the finished soap causes it to effloresce and crack. Variations in the quality of the alkali will, of course, influence the density of a ley, and in this way cause misconceptions as to its real strength when gauged by the Twaddle hydrometer, while alkaline salts in the leys will increase the amount of acid necessary for neutralisation, and consequently the cost of the process. The higher the quality of the soda the less impurities will there be, while the cost will be diminished and a superior product result.

## SILVERING GLASS.

THE following method for silvering glass is recommended by the originator as giving excellent results. Great stress is laid on the absolute cleanliness of the glass, not only from dirt and grease but also from any organic matter—in fact, herein lies the secret of success, as in all other methods. When the glass is thoroughly clean the following solutions are to be used:—

## Solution No. 1.

Nitrate of silver	..	..	..	200 grs.
Strong ammonia	..	..	..	q.s.
Distilled water	..	..	..	q.s.
Alcohol	..	..	..	1 fl. oz.

Dissolve the silver in 6 oz. of distilled water, and add ammonia gradually until the precipitate is dissolved—no more. Any excess of ammonia must be guarded against. Then filter through double filter-paper, adding distilled water to make 12 oz., and then the alcohol. Place in a clean bottle, shake thoroughly, and keep in a cool dark place.

## Solution No. 2.

Rochelle salts	..	..	..	12 grs.
Silver nitrate	..	..	..	16 grs.
Distilled water	..	..	..	q.s.
Alcohol	..	..	..	1 fl. oz.

Dissolve the Rochelle salts in 8 oz. of water in a porcelain dish, and boil. While boiling add gradually the nitrate of silver dissolved in 1 oz. of distilled water. Continue to boil until the solution turns grey; add 3 oz. of distilled water, and filter, making up to 12 oz. with distilled water. Add the alcohol, and bottle, keeping it in a cool dark place. Allow both these solutions to stand five or six hours before using.

Mix equal parts of above solutions and pour the mixture on the glass until covered. Allow to stand for one hour or more; pour off solution, rinse with clear water, and before drying amalgamate with solution No. 3.

## Solution No. 3.

Cyanide of potash	..	..	..	8 grs.
Cyanide of mercury	..	..	..	16 grs.
Water	..	..	..	q.s.

Dissolve the salts separately in 8 oz. of distilled water, and add distilled water to make 1 gallon. Place this solution in a sprinkler, and sprinkle the silver covering until it turns a lead colour; then rinse immediately, and stand on end to dry. Paint with asphaltum varnish, using a soft brush. The silver must not be touched before it is painted.

## DR. VARVILL'S PRESCRIPTION.

By MRS. J. H. RIDDELL,

Author of "The Head of the Firm," "George Geith,"  
"Alarie Spenceley," &c., &c.

## CHAPTER I.

ONE raw November evening, early in the Eighties, Mr. Isaac Hepplethorn, chemist, of 3 Beaufort Place, Upper Moor Road, London, W., sat alone in his shop doing—nothing.

He was doing nothing for the sufficient reason that he had nothing to do; and he sat alone because he had sent his son, besides whom he kept no assistant, upstairs, feeling he could contrive to be quite as miserable in solitude as in company.

Speaking quite dispassionately, it would have been difficult that evening to find in London, full of misery though the great city always is, a more wretched man than Mr. Hepplethorn.

Yet there was no deadly sin lying heavy on his conscience. He had not robbed a bank, or run away with his neighbour's wife, or done anything whatsoever which the law accounts a crime; but he had been foolish, and, as most of us know, folly is in this world generally much more severely punished than vice—perhaps because it will be easier to deal with vice than with folly in the next.

However this may be, Mr. Hepplethorn was, on the November evening when this story opens, bearing the punishment of his folly after a dogged, silent, stupid fashion, which some ill-natured persons attributed to drink, and others, more charitable, to the fact, as they believed, that the man was gone, or going, out of his mind.

Both theories were wrong, as theories are ever apt to be. Mr. Hepplethorn did not drink, and he was not going out of his mind; but he was miserable, and with reason.

As he sat on a stool behind his desk idly turning over the leaves of a day-book, in which the entries were few and all for small amounts, his thoughts only left present anxieties in order to recall a time when he had no anxieties worth mentioning.

Often and often before they had travelled the same weary road, but on the evening in question he seemed to see with cruel distinctness the pleasant highway shaded by trees and bordered with flowers he might never, save in memory, traverse again.

Ruin is compassed more frequently than many worthy persons imagine by a fatal inability to let well alone.

Mr. Hepplethorn had brought all his misfortunes on himself by reason of a vaulting ambition which could not let well alone.

No one need have desired a better friend than the LUCK which had kept even step with him through many a prosperous year.

The principal chemist in an old-fashioned provincial town, where his father had been a chemist before him, he virtually enjoyed the confidence and custom of everyone in a good position round about.

His was an ideal shop—cool in summer, warm in winter, artistic in its arrangement and appointments always—a shop ladies affected; where they arranged to meet their county sisters; where they left "dear little Algy" in charge of a devoted nurse, to have a first tooth tenderly removed; where they took Mr. Hepplethorn into confidence concerning the footman's sprain and the cook's neuralgia, the squire's curious illness and Sir George's most recent attack of gout—to all of which interesting details the chemist lent a sympathetic ear, and out of all of which he made a nice penny.

He had such pretty things, moreover, always so well displayed he never needed to say a word in their praise.

The articles sold themselves.

Ladies looked, and exclaimed, "Oh, Mr. Hepplethorn, how lovely!" or, "I really must take this home!" and such like.

If Mr. Hepplethorn had only understood in what safe and pleasant lines his lot was cast, this story concerning Dr. Varvill's prescription could never have been written.

As matters were, he grew tired of the ladies and their nurses, and dear little Algy, and the cooks and footmen, and squires and baronets—nay, even perhaps of uniform success. In a word, he lost his head; and who can conceive what follies under such circumstances a man may commit?

When anyone begins to think too much of his own merits—to imagine good fortune attends all he attempts merely because he is so steady, or so clever, or so respectable—evil times are within appreciable distance; and the fact was that the kindness and esteem of his patrons and neighbours had so unduly puffed up poor Mr. Hepplethorn, and produced such an exaggerated idea of his own abilities, that at last he grew to believe the pleasant world in which he moved could but be regarded as unworthy of him.

Then the inevitable rule-of-three snm such a state of mind engenders was duly worked out from the usual inaccurate premises to the usual inaccurate result.

Given—that Isaac Hepplethorn, with his extraordinary knowledge of pharmacy, his general intelligence, his superior address, his attention to details, his grasp of many subjects usually thoroughly understood only by manufacturing and analytical chemists, had in his native town—where, as is well known, no prophet is ever properly honoured—achieved a greatly-to-be-envied position and more than a fair amount of material prosperity, to what height might he not hope to climb if transplanted to some more congenial soil?

A very neat little sum indeed, the outcome of which nothing save experience, unhappily, could "prove."

It is scarcely necessary to add the congenial soil meant London—"the Capital of the World—the centre of modern civilisation, the headquarters of genius—the city richer than Tyre—mightier than Babylon—the huge mental workshop wherein all the day long, week after week, and year after year, men employ themselves in sharpening the wits of men"!!!

Mr. Hepplethorn was so delighted with his own imagination, and so satisfied of the correctness of his own calculations, that he at length decided to sell the excellent business his father had founded, to resign his appointment as churchwarden, as well as other appointments "thrust upon him" by appreciative and zealous friends, and bidding a not reluctant farewell to the accustomed streets filled with people he had known all his life, take railway ticket—the modern equivalent for staff and cockleshell—and start with his family for that terrible brick-and-mortar wilderness in which so many are defeated, and so comparatively few compass success—where so many fair and bright hopes find cruel burial and broken hearts scarce to be numbered at last obtain rest.

There is no use in arguing with ignorance wise in its own esteem.

Mr. Hepplethorn, spite of his undoubted cleverness, was ignorant as a child of the thousand pitfalls London prepares for unsophisticated country folk, yet he would listen to no word of advice from those who knew more than he.

Bluff squires, gentle ladies, clergymen who had paced the stony-hearted pavements of Mr. Hepplethorn's dream city, travellers from the great wholesale houses who knew every in and out of London, and were aware of the horrible difficulties which often meet and overwhelm new-comers—all counselled delay and consideration, but Mr. Hepplethorn was as adamant.

He had entered into an interesting series of correspondence concerning the sale of his own business as well as the

purchase of another, and never before in the whole of his experience had the post brought him such an amount of excitement and satisfaction.

"This is living," he thought. "During all the previous years of my existence I have only been vegetating"; a remark we—you, my readers, and I—have heard many times from many people with sadness, or contempt, or indifference, or amusement, according to our respective temperaments.

In the quiet town where he had been born people were almost unanimously of opinion Mr. Hepplethorn was doing a very foolish thing. "He will be a loss to the place," they said, "and the place will be a loss to him"—which last part of the sentence proved particularly true.

Ere Mr. Hepplethorn was very much older the loss of his native town seemed to him a serious one.

"Weren't you doing a very good business here?" asked one rather plain-spoken traveller, when he heard of the proposed change. Wise travellers do not care to see valued customers playing at pitch-and-toss with fortune.

"A capital business," replied Mr. Hepplethorn, "but an opening now presents itself for making a change, and I feel I should be wrong not to avail myself of it. You see, I have sons coming on—and daughters too, for the matter of that."

"And can't they come on here?" suggested the traveller.

"Not so well. There are chances in London no one ever meets with in a place like this."

"There are chances of coming a cropper," said the other, with a sort of diabolical prescience which hurt Mr. Hepplethorn very much, though he answered bravely :

"I am not going to come a cropper. I have bought a splendid business in London."

"So I hear—Baynfleet's, in Upper Moor Road?"

"The same—been in his hands for nearly quarter of a century."

"No doubt of that."

"And he has made a fortune."

"So it is said."

"Do you not believe he has?"

"I? Wherefore should I disbelieve? The only thing that ever puzzled me was why he wanted to sell such a business."

"Just because he had made a fortune, and wished to go to Australia."

The other shook his head, but did not speak.

"What are you driving at?" asked Mr. Hepplethorn impatiently.

"I am not driving at anything," was the reply; "only in my experience men like Baynfleet who have a good going concern, out of which a fortune has been made, and sons in the same line as themselves, don't, as a rule, sell or desire to emigrate."

"But if no one ever wanted to sell there would be no businesses in the market," returned Mr. Hepplethorn shrewdly, though with a slight increase of tone and temper; "and so far as Mr. Baynfleet having made a fortune goes, everyone is aware of the fact."

"Precisely, and I am puzzled accordingly. However, I don't want to damp your enthusiasm, and I will only say I hope you may make your fortune too, and find London fulfil all your expectations." With which equivocal aspiration exit one traveller, who might be considered a fair sample of many more.

A few weeks later Mr. Hepplethorn was settled in Beaufort Place, where he felt—so he expressed himself—"as much at home as if he had lived there all his life."

Australia being a long way off, Mr. Baynfleet naturally decided it would be better not to transport his household furniture thither. "Therefore, if you like," he said to Mr. Hepplethorn, "I will hand you over the whole place as it

stands. There need be no auction—no fuss. I go out; you come in. We won't quarrel about terms."

Nor did they. Mr. Hepplethorn, having already swallowed the Beaufort Place camel, never strained over the gnats subsequently offered to him. He took the stock, the fittings, the furniture, without a murmur, and paid for everything with an immediate cheque.

Under the best auspices, therefore, he entered upon his new life: the fame and glory of ready money preceded and shone about him like a halo.

Tradesmen touted for his custom, the local clergy soon found him out, and expressed in a breath their regret because Mr. Baynfleet was gone, and their pleasure because Mr. Hepplethorn was come.

It was under these delightful conditions the new-comer entered into possession of 3 Beaufort Place—no blinds to put up, no curtains to hang, no carpets to fit, no dark suspicions to allay, no hesitation about sending in goods to meet and overcome, no hateful requests for cash before delivery, no hanging back about the execution of orders—the cheeriest home-coming possible.

Mr. Hepplethorn enjoyed it thoroughly. He treated himself frequently to a little holiday, took his wife to see the sights, and his whole family more than once to the play. He welcomed London friends made in the provinces, and country friends who happened to be in London, and received their congratulations on the upward step he had taken; for was he not going to make his fortune?

There were pleasant days and doings at 3 Beaufort Place during the August when a new chemist succeeded to Mr. Baynfleet's business. Everyone worth mentioning was out of town, and trade consequently at a standstill; but Mr. Hepplethorn did not lament. Rather he felt he could be idle with a clear conscience.

He had plenty of money to go on with. A good time was coming; he could wait till that good time came.

Everything began well—everything went merry as a marriage-hell; there was not a cloud in the sky of his content.

Happy Mr. Hepplethorn!

## CHAPTER II.

MR. HEPPLETHORN'S happiness was not of very long continuance, however.

Though he had done one extremely foolish thing he was by no means lacking in common sense—and therefore the day came, as it was bound to come, when, after a series of enjoyable and rather expensive outings, it was borne in upon him that, even for the time of year, the "takings" in his new establishment were exceedingly small.

For this reason he deemed it prudent to curtail his amusements and to devote the most of his time to business.

Whether he imagined his assistants were dishonest or indifferent is a matter of no importance, because he found the receipts did not increase when he was present to check them.

Doubtless he ought to have felt glad to know his people were blameless; but, after all, Mr. Hepplethorn was only human, and his humanity shrank back dismayed when he remembered the amount handed over for goodwill and benevolence what the goodwill of Baynfleet's business promised to return for three months, at all events, out of the twelve.

Meanwhile rent and taxes and salaries were going on just the same as though money were rolling in!

It may be questioned, also, whether the customers who patronised Beaufort Place did not prove a greater trouble to Mr. Hepplethorn than the absence of others who refrained.

Previous experience had made him fastidious, and he could not help regarding with disfavour the persons who entered his establishment.

Was it to serve drabs who brought bottles he would not

himself have touched, for his assistants to fill with "stuff," he had sold his good country connection, relinquished an enviable position, and saddled himself with expenses that seemed never to end?

Was it to see his counters bombarded on Saturday evenings by rough men, often incapable of articulating very distinctly, he had turned his back on Algy and his nurse—on Lady This and the Countess of That, who bought his latest novelties and raved concerning his newest perfumes?

He could not imagine where all the dreadful people came from—the children with sore eyes and offensive skin-diseases, the women who carried sickly babies and asked for outlandish drugs, the men who bought boxes and boxes of a pill called by Mr. Baynfleet's name, that appeared to be in great request, and partook of curious medicines they liked to have mixed for them in tall glasses and drank with relish in the shop.

The very coins in which they paid for these various confections struck Mr. Hepplethorn as objectionable from a sanitary point of view; and, truth to tell, of a "muggy" night there hung about the immaculately clean shop that "poor-peopley" odour which in no way resembles that of Araby.

So matters went on till, Mr.

Hepplethorn's anxiety overmastering his reticence, he sarcastically asked Mr. Forwell, who had acted as manager to the late proprietor of 3 Beaufort Place:

"Was it out of such custom as this Mr. Baynfleet amassed a fortune?"

"I do not think so, sir," was the answer; "Mr. Baynfleet had made his pile before I came to him, at a time when the trade was very different from what it is now."

"In what way?"

"Oh! in every way. Stores were in their infancy then. Doctors did not make up their own prescriptions. 'Cutting' had not come in. And, besides," went on Mr. Forwell, who thought, perhaps, the time had arrived when Mr. Hepplethorn might be enlightened with advantage. "Upper Moor Road is not the place it was once. It has been going to the bad ever since Park Station was opened."

"Where is Park Station?" inquired Mr. Hepplethorn.

"At the bottom of Albert Avenue, that fine road just

beyond Park Square. Park Terrace, Park Crescent, Park Gardens, Park Place, all run into it. Mr. Baynfleet owned several houses in that neighbourhood. The new station about doubled their value."

"Oh!" said Mr. Hepplethorn, on whom a glimmering of disagreeable light was dawning. "Park Station, I suppose, is now used by all the gentlemen who formerly passed up and down this road?" he suggested, after a pause.

"That is so," was the answer.

"And where do the people come from who honour us with their custom?" went on the chemist.

"From round and about; there is a regular rookery not a stone's throw from here."

"Do we get many orders from Park Square?"

"No; there are some good shops near the station. A chemist started in one of them about eighteen months ago, and he takes the cream of what business there is hereabouts."

"Ah!" remarked Mr. Hepplethorn, knowing he had been sold in the worst way possible—with a lie that was partly a truth, and a truth which was more than half a lie.

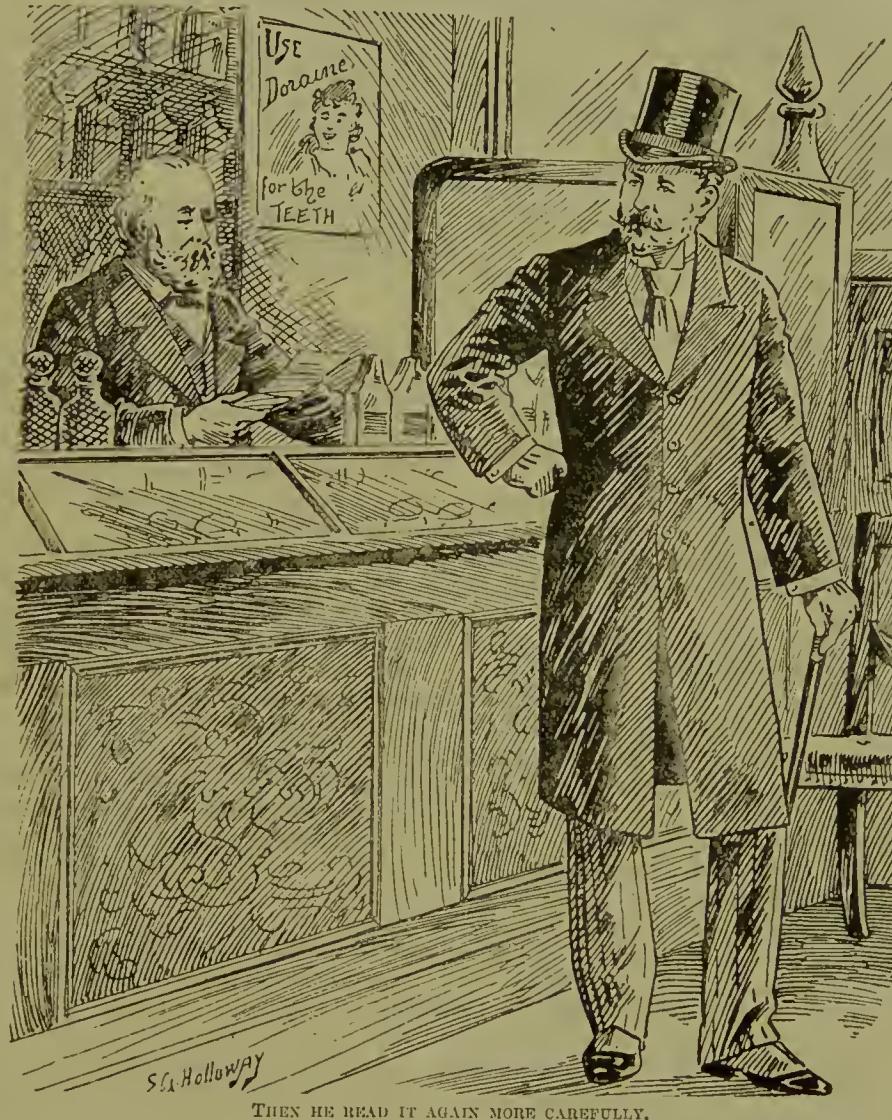
And no redress could be obtained. Every statement Mr. Baynfleet had made was strictly true to the letter, if not in the spirit; the agents were not to blame; the accountants were not to blame; the lawyers were not to blame; no one was to blame, unless it might be the

fortunate vendor, by that time far on his way to Australia where, it may be stated, he did not intend to remain permanently.

Many persons advised Mr. Hepplethorn to sell—to transfer the fraud, if such a phrase be permissible—to get out of the matter as safely as he could. The suggested transaction was more euphoniously worded; but Mr. Hepplethorn was not the man to take in anyone as he had been taken in.

Rather, with a courage worthy of all admiration, he resolved to try and retrieve his position.

That he failed was not his fault; that year by year he found himself going pecuniarily to the bad could not be imputed to him as a sin. He worked like a slave; he paid his way honestly; he did whatever his hand found to



do; he managed to live and educate his children: but he knew matters were getting worse and worse—that he should not be able to hold on much longer, and that the inevitable end must come.

It had come very near on the November evening when he sat turning over the leaves of his day-book in that absent way which so little resembled his former manner. Neighours hinted drink, or softening of the brain, or a stroke was the cause; whereas all that ailed the unfortunate chemist chanced to be that the waters of trouble had gone over his head.

He was considering, as usual, what he could do—to whom it would be possible for him to apply for advice and assistance—on that raw, chill night when, with many apologies for presenting so worn and harassed a man, Mr. Isaac Hepplethorn is introduced to the reader.

Matters were coming to a crisis. He knew he could not hold on much longer—honestly; and he certainly did not intend to hold on dishonestly.

For over seven years he had made as brave a fight as conqueror crowned with laurels ever waged.

Only the result in his case was not victory, wherein lay all the difference.

He had worked hard; he had denied himself; he had tried to retrieve his mistake by means of careful and persistent economy. He had hitherto managed to make two difficult ends meet; but now he understood—no work, no self-denial, no economy could delay the inevitable end.

"I will go to my landlord to-morrow," he decided at last, digging the point of his steel pen deep into one of the pages of that day-book which contained so few entries.

There was nothing else to be done. Upper Moor Road had been going as steadily down as Mr. Hepplethorn, and with even greater rapidity. Some thoroughfares begin life with a great dash, only, as it would seem, that they may get to destruction all the quicker.

At its first start Upper Moor Road assumed great airs of respectability—many of the houses were let on long leases, and none for a shorter term than three years. There were but four shops in the street, and those pretentious edifices in Beaufort Place; the side paths were planted with trees, and the neighbourhood was considered select.

Before Upper Moor Road numbered more than thirty years, however, a change came o'er the spirit of its dream. Landlords were only too glad to secure annual tenants—nay, they did not disdain quarterly; then many of the houses were let out in tenements, and quite a number of bell-handles ornamented the hall-door lintels. After that, private dwellings transformed themselves into shops, which in their turn soon assumed the character of mere stalls, on which all sorts of goods—butcher's meat, grocery, china, greenstuff, boots and shoes, bacon and eggs, dress-stuffs, shirts, hats—were exposed for sale, and gradually spread in picturesque confusion to within a few feet of the kerbstone. Old tools, old furniture, old worthless books, soon followed suit. Carpets depended from the irons intended for awnings; one cobbler in sight of the public pursued his calling down an arca; finally, a fried-fish shop was opened, which did a roaring trade, and poisoned the night air, by which time the demoralisation might have been considered complete.

Before that period, however, the last nail—figuratively speaking—was driven into the coffin containing the corpse of Mr. Hepplethorn's fortune by an audacious young chemist who, opening a shop near Moor Station, spirited away all those customers who had once been regarded with disfavour in Beaufort Place.

The new light pharmacist—young, impudent, and vivacious—soon established the most friendly relations with the working men and women, the drabs, the children—those afflicted with sore eyes, as well as their fellows who were the

proud possessors of mysterious internal complaints and loathsome skin-diseases.

How the new-comer raked in the pennies Mr. Hepplethorn had formerly regarded with proud disdain!

Pills more powerful and draughts more potent than any Mr. Baynsfleet ever adventured upon were freely advertised by Mr. Runnicle in the local paper and sown broadcast in the shape of handbills.

Runnicle's Infallible Specifics were indeed things to fill the stoutest heart with amazement, and having no fear of a coroner—or anyone else for that matter—the young gentleman prescribed his own medicines for all the ills flesh is heir to with a cheerful confidence that in itself went half-way towards effecting a cure.

He felt no doubt; he knew no hesitation. To hear him glibly discoursing about disease anyone might have imagined he had created man, and that, consequently, man's internal economy held no secret with which he was unacquainted. What chance had Mr. Hepplethorn against this unorthodox young fellow, who spoke of the elder chemist as "a poor old chap"?

None whatever. Indeed, Mr. Runnicle had not been long in the neighbourhood before the belief became general that Hepplethorn was either out of his mind already or going out of it.

In simp'e justice it must be said Mr. Runnicle had no part in starting this rumour, which came to him with the even more painful suggestion added that probably to drink alone could Mr. Hepplethorn's "queerness" and "want of success" be attributed.

"He came here with lots of money and stepped into a fine business," said the gossip who talked to Mr. Runnicle about the Beaufort Place chemist.

"He was a first-rate man once on a time, so I am told," was the answer. "Likely he has got softening of the brain," and then the changes were rung so loud that Mr. Hepplethorn could not avoid hearing some of their dismal music.

He knew he was growing old. He did not require anyone to tell him trouble had wrought its bitter work. When a man is poor—as poor as Mr. Hepplethorn—he grows slow of speech, shy of his fellows, anxious to avoid notice. Mr. Hepplethorn had been a prosperous man and was well-nigh a beggar. He might well seem "queer," "reticent," "odd."

Heaven help us! it needs a stout heart and great courage to carry the burden of poverty for seven long years without changing manner, or voice, or looks.

The end was coming very near for Isaac Hepplethorn, at any rate. How he had struggled, what he had endured, did not matter much on that chill November evening when he made up his mind to go to the man who had regularly been paid a preposterous rent through seven unprofitable years.

The end had drawn very near. As he came to that conclusion Mr. Hepplethorn got down from his stool and advanced to meet a customer who had just opened the door and walked into the shop—a customer quite of a different stamp from any the chemist had met with for many a long day, and yet one whose face seemed not quite unfamiliar, though he failed to remember where he had seen it before.

Certainly he could but be considered what Mr. Runnicle in his airy way would have called a "toff."

"Good evening!" said the stranger courteously. He was a fine-looking man of forty or thereabouts—tall, and of a stately presence. "Seems as if it were going to be a nasty night."

"Do you think so, sir?" answered Mr. Hepplethorn sensibly enough, though he had been sitting so long in company only with many troubles that the tones of his own voice sounded strange to him when he spoke, and he felt for the moment dazed like one who had come out of darkness into a strong light.

"Yes, the wind seems to be blowing up for rain. How-

ever, we must expect that now, I suppose. I have a prescription I want you to make up for me," added the unwonted customer unbuttoning his coat, and fumbling in his breast-pocket as he spoke.

"Certainly," said Mr. Hepplethorn, standing at ease, and trying to speak as he would have spoken years previously, before he ever as much as heard of Upper Moor Road, or had been tempted of the devil to sell his country practice and yielded to the temptation.

He felt the stranger looked at him a little curiously. He knew he was somewhat confused, and strove to conceal his embarrassment the while he waited till the gentleman, after turning over many letters and papers, at last found what he had been in search of.

"Ah! here we are," he exclaimed, handing an envelope across the counter with a smile.

Mr. Hepplethorn took it and extracted a prescription that had been written by Dr. Varvill, of Chesham Place, and made up previously to that November evening by a well-known firm of chemists in Brompton.

Mr. Hepplethorn glanced it over half-carelessly, as one often does read a paper, likely to contain little of importance, for the first time. Then he read it again more carefully, doubting the evidence of his senses, and felt as if he had unexpectedly received a galvanic shock.

### CHAPTER III.

NEVER before had Mr. Hepplethorn experienced such an awful shock—never even when it was borne in upon him that Mr. Baynfield's excellent business could only be regarded as a swindle. That knowledge had come upon him by degrees—but this terrible thing was unexpected as a pistol-shot.

The effect it produced, however, was strangely different from any which might have been anticipated.

Prompted by some vague instinct—even while his head reeled with astonishment—he turned a little aside, and holding the prescription under a gas-flame, affected to study it carefully, in order that he might regain command of himself.

Then almost in a moment the cobwebs of care that had for years been obscuring his brain were swept aside, his troubles dropped from his soul like a heavy garment, and for the time he stood a man free from the trammels of anxiety, able to think quickly and clearly as he had done in happier days, rather than after the uncertain nerveless fashion which of late caused so many people in and about Upper Moor Road to believe he was losing his wits.

The necessity for prompt and discreet action took him out of the cloudy atmosphere in which he had been for so long living. For the first time he was face to face with a danger he never conceived could menace any chemist, and its imminence steadied him.

One swift flash of that former intelligence on which he had been wont to pin himself seemed to make the position clear to his understanding, a short time previously befogged by care.

He recalled where and when he had seen the new customer. He remembered why that handsome face struck him as not pleasantly familiar; he suspected why to Isaac Hepplethorn, of 3 Beaufort Place, was accorded the honour of making up a prescription written by Dr. Varvill, of Chesham Place, and previously dispensed by a well-known firm in Brompton. He believed he partly grasped what the whole thing meant, and, though he recoiled from the conclusion forced upon him, felt so much might depend on how he dealt with the matter, that it behoved him to handle the dreadful difficulty with courage and wisdom.

"Can we send this for you, sir?" he asked after a pause which was really very short.

The new customer, who had been intently examining the

contents of a showcase, looked up at the question, while an expression almost of relief flitted across his face.

"No, thank you," he answered; "I will take it."

"I shall have to trouble you, then, to wait for a short time," returned Mr. Hepplethorn. "Will you not be seated?" and he indicated one of those uncomfortable, old-fashioned mahogany hall-chairs which are always to be found in chemists' shops.

The gentleman sat down and continued his investigation of scent-bottles, fancy soaps, combs, nail-trimmers, scissors, purses, and other such useful and refined trifles.

Mr. Hepplethorn, after touching a bell which rang upstairs to apprise his son that he was wanted, walked to the rear of the shop where all medicines were made up, taking Dr. Varvill's prescription with him.

When well out of sight behind a tall nest of shelves, which lent a dignity to the outer shop and screened the dispensing-counter from the profane gaze of customers, he again scanned that half-sheet of note-paper curiously, even examining it through a powerful microscope.

"Remarkably well done," he thought, planting both elbows on the counter, and resting his forehead on his hands. "An ignorant lad now—or a careless assistant—or—a man in the state of health Runicle hopes I am—might have—played the deuce."

He was right; and if Mr. Hepplethorn were not to play the deuce, only two courses were open; further, he had scarcely any time in which to make up his mind which to adopt.

He could refuse to dispense the prescription altogether, or he could dispense it, omitting one ingredient.

What he could not do was, make up the medicine as directed.

He argued the matter to the bitter end conclusively—Isaac Hepplethorn alone with Isaac Hepplethorn in blissful forgetfulness that he was the most wretched fellow living.

For many a long day he had not stood so completely outside himself—so wholly absorbed in the peril of another human being, who appeared to be a certain J. Tercett, Esq. Who that gentleman was, where he lived, why anyone desired his death, were mysteries to Mr. Hepplethorn—but mysteries he meant to solve ere he or his new customer were much older. He had not been grappling with the extraordinary prescription for three minutes, yet his mind was made up.

Pushing open a narrow door, which gave admittance into a small room behind the inner shop, fitted with shelves, and furnished with a deal table, a chair, plenty of bottles, phials, and empty boxes, he said, in those grave, slow tones anxiety had made habitual, to a lad who was poring over some school-hooks:

"Hal, I want you to take a good look at the gentleman for whom I am now making up a prescription. You can see him through the window. When he leaves follow him; if possible, ascertain his name and address. Mind, not a word about this to anyone till I give you leave. Here is money; don't use a penny you can help, but spend when needful. You quite understand the matter is of importance?"

The boy nodded assent, closed his hooks, took his coat and cap from a peg, and without a word went out into the night. Mr. Hepplethorn returned to his counter just in time to hear the new customer ask his elder son:

"Do you think Mr. Hepplethorn will be much longer?"

"I cannot say, sir; it all depends," answered the young man, beautifully unconscious of the drama in progress. "Some prescriptions are more troublesome to make up than others."

There ensued a dead silence. Mr. Hepplethorn selected his materials, made up the medicine, put it into a faultlessly bright bottle, wrote on a label, hearing his name and address,

the directions, "One-sixth part to be taken three times a day. J. Tercett, Esq," made up a neat little parcel, wrapped up in clean white paper, and, returning to the front of the shop, handed it to the stranger with the prescription, and the remark:

"Are you sure you would not like us to send it for you, sir?"  
"Quite unnecessary, thank you. How much?"

Mr. Hepplethorn told him and received the exact amount.

"Good evening," said the new customer.

"Good evening," answered Mr. Hepplethorn, holding open the door. "It is raining. Should you not like a cab, sir?"

"I sha'n't hurt," was the reply; and next instant he was gone, followed at a safe distance, as Mr. Hepplethorn saw, by Hal.

The chemist breathed a sigh of relief and walked back to his desk, wiping his forehead as though he felt the night warm.

"That swell lives in Park Crescent," observed Mr. Hepplethorn, junior, using the language of the period.

"Really?" observed his father.

"Yes; in the house with that lady who owns those two pretty white dogs."

"It struck me his face was somewhat familiar," said the chemist. "I thought I had seen it before."

"I wonder he did not go to Hanroyd's to get his prescription made up. That would have been more in his way."

"He may have been coming from Moor Station; and, besides, the lady deals here," was the reply. "I have to go out, Ted, and I don't know how long I may be detained. Tell your mother not to wait supper for me or to sit up. Oh! and I have sent Hal an errand, so she need not be uneasy about him."

Mr. Hepplethorn was putting on his top coat as he made these statements, and a minute later left Beaufort Place without vouchsafing any information as to where he intended to go.

He walked briskly through the rain to Moor Station, where he took train for Victoria. Arrived there he made his way to Chesham Place, only to find Dr. Varvill out, and his servant unwilling to say where he was or when he would be in. Pressed very hard the man said he thought he might be back by eleven; but even this was uncertain.

"I must see him to-night," said Mr. Hepplethorn, "so will return at eleven"—which he accordingly did, to meet the popular physician on his doorstep.

Dr. Varvill had been dining out, and after spending a most delightful evening was returning home in excellent temper and spirits. If he had been asked to go and see a patient he might have demurred, but as Mr. Hepplethorn only craved a few minutes of his time, explained who he was, and said how well he remembered making up Dr. Varvill's prescriptions for one of his country patients, Sir George Montmoroney, the chemist was accorded an interview at once.

"Dilworth, light the gas in my room. Walk in, Mr. Hepplethorn—pray walk in," said the genial physician, who had the most charming manners. "What can I do for you?"

he went on when Dilworth had closed the door upon prosperous Dr. Varvill and impudent Mr.

Hepplethorn.

"What is this pressing matter about which you wish to consult me?"

"I will not waste your time, doctor," said Mr. Hepplethorn in answer to the courteous question, which seemed like an echo of some pleasant melody long unheard though once familiar, "so will come to the point at once. Did you write the prescription of which this is a facsimile?" and as he spoke he handed Dr. Varvill a fair copy he had made while the new customer waited.

Dr. Varvill took the paper and ran over the items.

"H—m! H—m! H—m!" he murmured. "J. Tercett, Esq.—that is all right. Poor dear fellow—a great friend of mine as well as patient"; and he would have returned Mr. Hepplethorn his memorandum had that gentleman not said:

"Pardon me, but I do not think you have read the contents very carefully."

"Indeed? What have I overlooked?"

"The quantities—or, rather, one quantity. Please glance at the strychnine."

Dr. Varvill did as requested. Then he looked again, as if doubting the evidence of his eyes, and, just as Mr. Hepplethorn had done, though not for the same reason, he held the copy-prescription where more light fell upon it. After that, springing to his feet, he exclaimed, in an access of dismay:



"I NEVER WROTE THIS PRESCRIPTION."

"I never wrote this prescription. I could not have done such a thing—why, there is enough poison in it to kill half-a-dozen people."

"Do not distress yourself, sir, pray," said Mr. Hepplethorn, who had risen also, infected by the physician's terrible agitation. "There would have been someone killed very soon had I made up the prescription as handed to me, but I did not. I omitted the strychnine altogether."

"Thank God!" said Dr. Varvill—"thank God!" and he walked to the fireplace and back striving to get over a shock which evidently was as great to him as it had been to Mr. Hepplethorn a few hours previously.

At last, signing to the chemist to do likewise, he resumed his seat and began :

"All this is an utter mystery to me, and I must know what it means. Of course I need not say the prescription of which this professes to be a copy"—and he touched the paper Mr. Hepplethorn had handed him—"was never written by me. I could not—no man with the slightest knowledge of medicine could—have fallen into such an error."

"I am quite sure of that," was the reply; "but I feel equally confident the person who brought the prescription to me fell into no error either."

"What do you mean?"

"Exactly what I say. The prescription, made up previously by Sawtell & Cowmeadow, of Brompton, handed to me this evening, was evidently written originally by you. The quantity of strychnine had no doubt been altered with a purpose."

"What purpose?"

"Well, to speak plainly—I should imagine, to put someone out of the way."

"But that would have been murder."

"I have no doubt murder was the object."

"Impossible!"

"It would not have been in the least impossible under certain conditions—no more impossible than fastening the guilt of the crime afterwards on me."

"Where is the original prescription?" asked Dr. Varvill, after a pause.

"I returned the original prescription with the medicine, as is customary."

"Surely it was your duty to keep it."

"I could not well have done anything of the kind, unless I had been prepared to give the person who brought it into custody."

"Why not?" and the physician's tone was sharp as he asked the question.

"Put it to yourself, Dr. Varvill. Had I refused to return the prescription, my customer—a gentleman by birth and breeding, as the world accounts such things—would have made a disturbance, and it seemed to me a disturbance was the thing to avoid. Remember, the whole business was sprung upon me as a surprise, and I met a grave difficulty as best I could almost at a moment's notice. I did not say the prescription struck me as extraordinary, but I made it up omitting the one dangerous ingredient; and now at considerable personal inconvenience, I have come to you to know what you consider ought to be done?"

"Indeed, Mr. Hepplethorn, I feel so bewildered that I am unable to make any suggestion. Like you, the whole thing has come upon me unawares. I do not know what to think about the business. Can you describe the appearance of the gentleman who asked you to dispense the prescription?"

"Certainly I can," was the answer, "and all the better because I had seen him before. He is a good deal at the house of a lady in our neighbourhood who calls herself Mrs. Osmond. He is known as Mr. Osmond, but his real name appears to be Tercett."

The doctor started. "Are you certain of this?" he asked.

"Perfectly certain. He went straight from Upper Moor Road this evening to Hans Place. Therefore if the medicine I made up contained what he believed it did, your patient would be a dead man to-morrow—or to-night, perhaps."

"Good heavens!"

"Has the gentleman who is not your patient any pecuniary interest in the death of the gentleman who is?"

"I do not know in the least—really I don't know. This is a terrible business, Mr. Hepplethorn, and one with which we are not equal to cope. What we had better do is this. To-morrow I will see Mr. Steen, Mr. Tercett's solicitor, and put the whole thing before him. I am certain you will not object to my taking this course?"

"I? Not in the least."

"It would be better for you to see him also, perhaps," said Dr. Varvill, a little disconcerted by Mr. Hepplethorn's frank acceptance of his proposal.

"Much better, decidedly. I could explain matters more fully even than you."

"Then will you meet me to-morrow afternoon at Mr. Steen's office—four, sharp?"

"Certainly. Where is his office?"

"New Square. I forget the number, but anyone will tell you. Does my plan not suit you?" Dr. Varvill added, as the other hesitated ere replying.

"It suits me very well; but still I should like to propose an amendment."

"Which is?"

"In a case like this," began Mr. Hepplethorn, weighing his words carefully, "time seems to me of the utmost importance. Delay is proverbially dangerous. Suppose, instead of going to Mr. Steen at four o'clock to-morrow afternoon, you send him a telegram to come here as early as possible in the morning? I will run over about nine, and you can then let me know the hour Mr. Steen appoints."

"A very good thought!" exclaimed Dr. Varvill. "That will be better in every way."

#### CHAPTER IV.

AS a matter of course—for time runs away very fast while talk is in progress—Mr. Hepplethorn missed the midnight train back to Moor Station, and had to tramp every step of the long way home.

On his arrival, wet and tired, at Beacontree Place, he lighted the gas-stove and contentedly made himself a cup of cocoa, which, with some brown bread and butter, provided the poor fellow with what he called a "sumptuous repast."

All things are comparative. Happy indeed would Mr. Hepplethorn have been had he felt assured he should always possess a roof to cover him, and be able to count on that "dry morsel" which, we are told, is better than "a house full of sacrifices."

And yet he had formerly enjoyed a good dinner as much as anybody. Truly circumstances alter cases!

Fatigued, he fell at once into the deep sleep of utter exhaustion; but this period of blessed forgetfulness did not last for long. Ere four o'clock struck he was lying wide awake facing the usual difficulties, pondering the usual possibilities—or, rather, impossibilities—oddly mixed up with the memory of his new customer and Dr. Varvill's prescription.

Before the first streak of daylight appeared in Upper Moor Road Mr. Hepplethorn was so weary of his miserable and tangled thoughts that he dressed and went down into that shop which had cost so dear and returned so little, only to find, as usual, the previous evening's business had been almost nil.

There is nothing harder to change than a run of ill-luck, and the chemist's run had been a long one!

A little before nine he found himself once more in

Chesham Place, where Dr. Varvill showed him even greater courtesy than on the occasion of their first meeting—which courtesy, had Mr. Hepplethorn only understood its meaning, was the outward and visible token that the physician had altered his mind.

Always civil and gracious, Dr. Varvill was never half so civil or so gracious as when he intended to disappoint a man, or back out of a promise, or perform any other unpleasant act which needed soothing over to his conscience.

This was the reason exacting persons called Dr. Varvill a humbug, whereas he only did that pleasantly which his fellows as a rule do unpleasantly; nevertheless, the difference between his manners and his deeds often caused a sense of irritation which made many rude people say hard things concerning him.

As matters were, it chanced that he was in the morning not at all of the same opinion as he had been overnight.

Like Mr. Hepplethorn, sleep refused to remain with him. Through the long hours of darkness he had tossed and turned, and Dr. Varvill did not like lying awake. Again, when day dawned rain was coming down in torrents, and Dr. Varvill did not like rain any better than he liked lying awake in the darkness.

Moreover, he did like to avoid disagreeable complications, and, so far as possible, to be all things to all men, more especially to those men who were rich and of a good standing; and how could he keep on agreeable terms with the Tercett family if he sprang a monstrous scandal upon one of the members composing it?

He had quite persuaded himself Mr. Hepplethorn's story could only be considered "a monstrous scandal"—whether a delusion or an invention he was not called upon to decide. On the previous night he had been frightened! The idea that a prescription of his was wandering about the world, authorising any chemist to deal out a subtle poison in quantity, seemed so terrible he felt someone ought to be called in to stop the mischief; but upon reflection he had arrived at the conclusion the whole thing was either a pure concoction or that mere storm in a teacup busybodies have such a fancy for brewing.

He could have nothing further to do with the matter. Mr. Hepplethorn had not a tittle of evidence to support his assertion: his whole statement was absurd.

Why, Osmond and Jack Tercett were like brothers. They loved, had always loved each other. No better fellow lived than Jack Tercett; and if there had been stories about Osmond—a most agreeable person—was a man to be branded "poisoner" because a mere adventurer—and according to his own confession this chemist, this Hepplethorn, was an unsuccessful adventurer, who had sold one good business and let another go to the dogs—chose to tell a cock-and-hull story about his, Dr. Varvill's, own prescription having been tampered with?

He was sorry he had ever listened to such a rigmarole, but as he could not repair that error he would get rid of the tiresome individual from Upper Moor Road as quietly as possible.

"What a morning, Mr. Hepplethorn!" he began in his suavest voice. "Pray, he seated. I hope you are not very wet, because, if so, I shall feel a little guilty in having given you such a journey for nothing. I know I ought to have telegraphed to you, but the fact is I did not think of doing so till too late."

"Is Mr. Steen unable to come, then?" asked Mr. Hepplethorn.

"I have sent not sent for him," was the answer. "After a considerable amount of reflection I have arrived at the conclusion I ought not to meddle in the affair."

If Dr. Varvill had expected Mr. Hepplethorn to utter some vehement expostulation, he ought to have been agreeably

surprised, for the chemist spoke no word, had or good—only sat like one stunned.

"I have been thinking the whole position over," went on Dr. Varvill, more disconcerted by the chemist's silence than he might have cared to confess, "and feel I could not possibly interfere. You see, even supposing you have made no mistake, we could not bring the smallest proof to support such a terrible accusation. Believe me, in saying this I have no intention of casting a doubt upon your word, but I believe you are labouring under some great delusion. The first question any dispassionate person would ask we can easily imagine:—'Why did you not refuse to make up this extraordinary prescription?' and the next:—'Why in any case did you not retain the original document?'"

Dr. Varvill panted, but again Mr. Hepplethorn did not answer. If he had heard, he made no sign; only sat perfectly still, gazing straight before him at nothing.

With the pitiful daylight streaming full upon him how ill and worn he looked! How poor!—how shabby!

"The man appears to me as if he were going mad," thought Dr. Varvill. "I am glad I did not send for Steen." Then he added aloud:

"After a few days, when you have had leisure to think the matter over quietly, I hope, Mr. Hepplethorn—nay, I am sure—you will come to the conclusion that I have acted rightly."

"Looking at it as you do, sir, I do not see that you could act differently," answered Mr. Hepplethorn, rising and terminating the interview with unexpected suddenness. "I must not occupy more of your time," he added nervously. "I beg to apologise for my intrusion, and to wish you good morning." And so, with "apologies and thanks," if one may be forgiven the phrase, exit Isaac Hepplethorn, chemist, leaving Dr. Varvill, on his direct way to a baronetcy, more puzzled and confused than he had ever felt before in the whole course of his successful life.

"Is he more rogue or fool?" he asked himself—a question difficult to answer because the man was neither.

Meanwhile, straight up Grosvenor Place walked Mr. Hepplethorn—so astonished, so disappointed, so "thrown," that he scarcely knew where he was going. Not with any will of his own, but impelled by the vague instinct of a man seeking quiet, he turned along Piccadilly, and thence into the Green Park. The full bitterness of his position had never come so close home to him as when Dr. Varvill, speaking the world's words, explained precisely what the world would think of a story such as that he foolishly expected must he believed.

"I have fallen so low as to be unworthy of credit—I, whose word would once have been received without question!" he thought, in a very agony of useless regret. "Is it I who am really changed," he went on, "or is it only because poverty has come upon me 'like an armed man,' I can now be of no use to myself or anyone else?"

Grievous reflections to keep a man company through the pouring rain, and yet reflections which seemed not to have been quite without fruit; for, when close to St. James's Palace, he pulled up suddenly and considered himself.

Then, all in a hurry, he said right out loud—where happily there was no one to hear, "I will! I will! I declare I will!"

It was but a step into Pall Mall. There he soon found an omnibus bound Cityward, which conveyed him and his fortunes to Chaucery Lane, where, alighting and making his way to New Square, almost the first name he saw proved to be that of the person he sought.

To seek Mr. Steen was one thing, however, and to obtain an interview quite another. A young clerk—who might have been Cerberus himself, so jealously did he guard his employer from impudent intruders—told the visitor Mr. Steen was

engaged; that he would not be disengaged for hours; that when he was disengaged he had a particular appointment at the Law Courts. Yet still Mr. Hepplethorn stayed.

Almost pathetically the youth assured him it was of no use waiting. Mr. Hepplethorn held his ground. Any person might have supposed the last thing any member of the firm of Steen, Yarrow & Haine wanted to see was a client, but the chemist was not to be balked. He felt it would be impossible to return home with that heavy secret burdening his heart. He must speak to Mr. Steen.

"Indeed, I cannot disturb him," explained the clerk. "You had better leave your name, and return some other day."

"What does the gentleman want?" asked a middle-aged individual, who entered the office at that moment.

"I want to see Mr. Steen," answered Mr. Hepplethorn for himself.

"Have you an appointment?"

"No."

"Then I am afraid"—

"I mean to see him, and that is all about it," interrupted Mr. Hepplethorn. "If he knew the nature of my business, he would not thank you for keeping me waiting."

"Perhaps our managing clerk could attend to you. Shall I inquire?"

"No. I am obliged. If you will give me an envelope, however, I can explain the nature of my business to Mr. Steen."

It was wonderful the effect a line written in pencil on the back of one of Mr. Hepplethorn's business-cards produced. Almost, as it seemed, ere the message could have been delivered, the chemist was asked to "step this way," and in another minute found himself in the presence of Mr. Steen, a young-looking elderly man, who said:

"You come from Mr. Tercett?"

"No. I come on business which concerns Mr. Tercett."

"Ah! I thought," referring to the card. "I see," and then Mr. Steen paused—waiting.

"I am here about a matter which seems to me of vital importance to your client."

"May I inquire how you know he is my client?"

"I know, because Dr. Varvill told me."

"Indeed. Pray, proceed."

"There is one question I should like to put as a preliminary.

"And that is—"

"Has Mr. Osmond Tercett any interest in Mr. John Tercett's death?"

"What an extraordinary question! A most improper question—one I could not possibly think of answering."

"You have answered me. I will not offend again."

"May I request you to get to the point as quickly as possible? My time—"

"I quite understand," said Mr. Hepplethorn. "I will not detain you an instant longer than I can help. As my card states, I am a chemist carrying on business at 3 Beaufort Place, Upper Moor Road. Seven years ago, last summer, I bought the lease and goodwill of 3 Beaufort Place, from a Mr. Baynsfleet, who made his fortune there. I had no

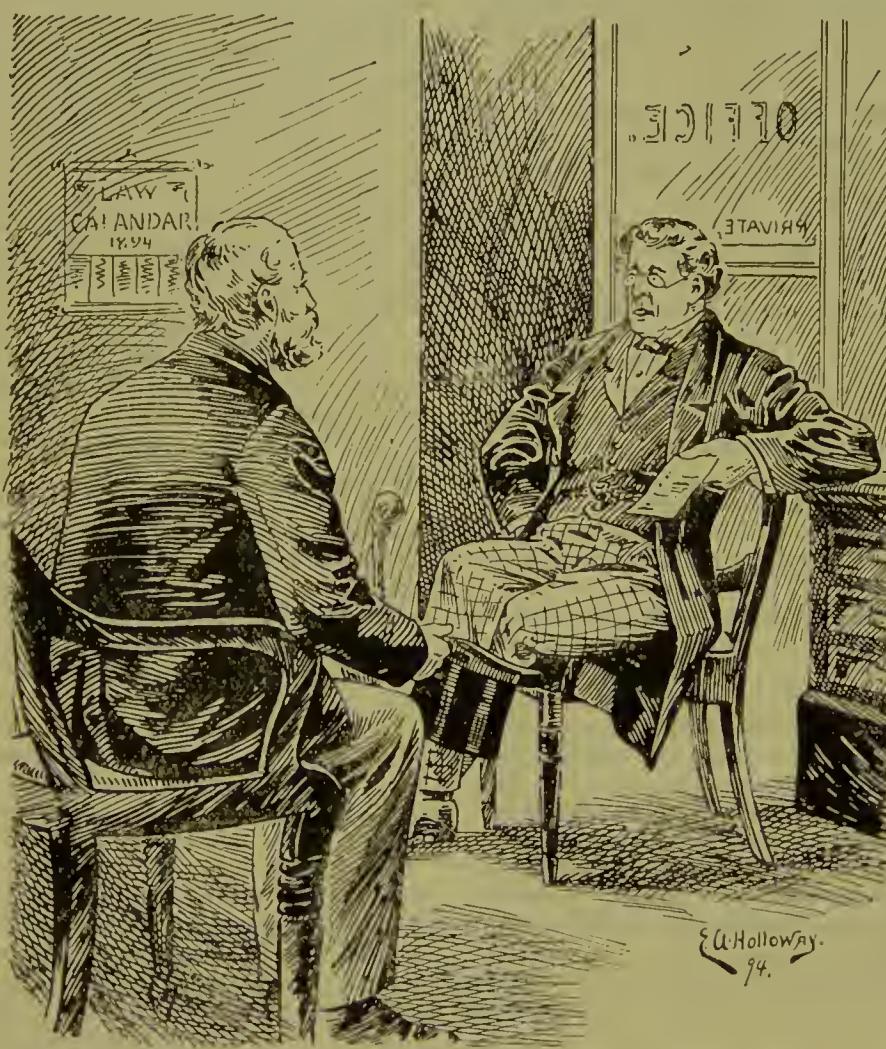
reason to suppose I was being taken in, but, practically, my purchase has ruined me. I came to London well-to-do. It is now a struggle, from day to day, for me to keep a roof over my head, and maintain my family."

"A very hard case, Mr. Hepplethorn. May I remind you, however, that you are here ostensibly about a matter which concerns Mr. Tercett, and Mr. Tercett only?"

"What I have said does concern Mr. Tercett, and Mr. Tercett only," was the reply. "Had I been a prosperous man, I should have known nothing of Mr. Tercett, of whom I never heard till last night, and wish to heaven I never had heard of him."

"I am sure Mr. Tercett cannot have injured you in any way," expostulated Mr. Steen, answering Mr. Hepplethorn's manner rather than his words.

"No; but, apparently, someone wants to injure him, and it is entirely owing to my misfortunes I chance to know anything about the matter," was the reply. "Though not through any complaint of mine it is only too well understood in the neighbourhood that affairs have gone very badly in Beaufort Place, and my neighbours generally believe the long strain has told upon me in a way and to an extent it has not done. I want you clearly to understand that, sir. Failure may have made me a little moody—somewhat over-inclined to brood; but I understand my business, and can make up a prescription as accurately as any man in England, let that man be who he will."



"JUST SO," SAID MR. STEEN.

"I am very happy to hear you say so," returned Mr. Steen, politely; "but I would just venture to point out the question now is not whether you can make up a prescription, but whether you have anything to tell which really relates to Mr. Tercett."

"You will soon be able to judge," answered the chemist. "Yesterday evening a gentleman brought me a prescription he wished to have made up."

"Indeed!"

"The prescription, signed by Dr. Varvill, and written on note-paper stamped with that gentleman's address, seemed to me so extraordinary that I took two fair copies, of which this is one." Mr. Steen accepted the slip Mr. Hepplethorn handed to him, and glanced over the hieroglyphics written on it, which were, however, evidently Greek to him; for after trying to solve the enigma, he shook his head, and remarked:

"I am not a doctor."

"Allow me to explain. In the main this is quite an ordinary prescription—one which might be written for any man a little out of health. There is nothing exceptional about it except the amount of poison ordered."

"Poison!" repeated Mr. Steen, in a manner which proved his interest was at last aroused.

"Yes."

"And do you mean to tell me Dr. Varvill wrote that prescription?"

"In its original form," answered the chemist; "but an addition has since been made to the quantity of strychnine ordered, so that had I dispensed the medicine, I should have been actually sending out DEATH. You follow my meaning?"

"I think so; I am trying to understand. Go on, please, with your story, which will be more intelligible if we have no break in the narrative. Just tell as shortly as you can exactly what took place. I can put any questions that occur to me later on."

Thus entreated Mr. Hepplethorn repeated the same tale he had told on the previous night to Dr. Varvill. Beginning at the beginning he led his hearer through the zigzag maze of every petty detail till he finished with his own resolve come to in view of St. James's Park of shifting his disagreeable burden upon the shoulders of someone better able to bear it than himself. "I felt I could not go back home knowing I had done nothing really to warn Mr. Tercett of his danger; therefore I took the liberty of coming to you."

"Just so," observed Mr. Steen, which was rather a pet phrase of his, perhaps because it committed him to nothing. After that he lay back in his office chair looking up at the ceiling and said nothing for a few minutes.

Mr. Steen was one of the most astute men in London, though any person might have been excused for not guessing the fact.

He had partners, but they merely attended to the ornamental portion of the business, for in his own person Mr. Steen was captain, mate, and boatswain of the New Square ship.

He it was who took the latitudes and longitudes of every abstruse case; it was he whose meridian observations always proved so accurate—to whom by common consent was entrusted the chart of every difficult suit—who was daily consulted by Messrs. Jarrow and Haine, both well versed in legal lore, but mere ignoramuses when compared with the head of the firm; and he who in his turn asked and took advice from no one.

A great man truly, and yet he lay back in his chair thinking over what Mr. Hepplethorn had told him just as anybody else might have done.

He was thinking, not because he doubted the story he had heard in the least,

At first he believed his visitor to be, if hardly a professional

impostor, at all events one who, wanting money badly, had come to ask for it, making Mr. Tercett the pretext; but now he knew differently.

He had cast the chemist up like a column of figures, and found the result correct.

Moreover, he knew the Tercetts root and branch—knew John Tercett and his boundless liberality, Osmond Tercett and his shameless impecuniosity and unblushing appeals to the generous man who never refused to help.

Osmond Tercett was a man who would have taken her mite from the poor widow, and stripped Dives of his purple and fine linen.

No; Mr. Steen could not say he felt surprised at the story, but he wanted to see his way, and, like Mr. Hepplethorn on the previous evening, he had not much time to see it in.

Whatever was done must be done soon. Already an idea was vaguely shaping itself in his mind, but its feasibility depended on a matter he did not quite understand.

"What is your reason for supposing Mr. Osmond Tercett went to Brighton last night?" he asked, taking up the thread of conversation as though Mr. Hepplethorn had that moment dropped it.

"I do not suppose—I know," the chemist answered. "As he stood on the doorstep, he said to the butler, 'Tell Mrs. Tercett that my address for a week will be 'Grand Hotel, Brighton.' Don't forget.'

"But he might not have gone for all that."

"He did go," was the reply; "my son followed to Victoria, and not merely heard him ask for a ticket, but saw him in the train."

"That lad of yours seems to be a sharp youth," remarked Mr. Steen.

"He is very sharp, though very quiet."

"Do you often employ him at detective work?"

"No; I never did before, and I am not likely to do so again."

Mr. Hepplethorn spoke as if aggrieved, and seemingly the lawyer felt he had reason, for he said, "I beg your pardon," in a conciliatory manner ere falling into another reverie.

"Dr. Varvill was quite shrewd enough to see the weak point in your story," he resumed at last, abruptly as before. "You ought to have kept the original prescription."

"Pardon me!" returned the chemist. "After thinking the matter out exhaustively I am sure I ought to have done nothing of the kind. In the first place, it was not my property. I had no more right to retain Dr. Varvill's prescription than to keep any other document which did not belong to me. In the second, it seemed to me advisable, and I believe it was advisable, not to let my customer think I suspected him; and in the third, we should have found ourselves in a worse plight with the prescription than without it, because in that case Mr. Osmond Tercett would certainly say I had altered it for my own purposes."

"He will probably say that as it is. You had plenty of time to stick in any number of marks you chose."

"I never thought of that. So I had," said Mr. Hepplethorn, crestfallen—so utterly crestfallen that Mr. Steen could not refrain from smiling.

"Never mind," he returned speaking not unkindly. "I do not believe you altered the prescription, and I do feel you have given us information that may prove most valuable. I will consider what ought to be done and communicate with you later on. Oh! by-the-by," he added as the chemist rose to go, "there is one thing more I want to ask. Supposing you—or any person for that matter—had made up the prescription as handed in, how soon would a fatal effect have ensued?"

"After taking one dose the patient would have been practically a dead man."

"Really! One dose sufficient?"

"Quite."

"And how long would it be ere the end arrived?"

"That depends. Some people are not so susceptible to poison as others."

"But what would be the longest time a man could live? Six hours?"

"Less than that. With such a dose, two at the outside."

"I see. Then whether Mr. Tercett took the medicine last night or this morning, he would be dead in any case by now?"

"Yes."

"You are quite certain?"

"Perfectly."

"Thank you, Mr. Hepplethorn. I am very much obliged. I have your address. You shall hear from me ere long. I think you said I might keep this copy-prescription for the present. Good morning. Thank you again."

#### CHAPTER V.

WHEN Mr. Hepplethorn had departed Mr. Steen went into the next office, where his managing clerk sat alone.

"Reford," he said, "did you not tell me the other day there was a writ out against Mr. Osmond Tercett at the suit of Tanna?"

"Yes, sir."

"Did you happen to hear the amount?"

"No, but it is heavy—very heavy."

"Just what I expected," commented Mr. Steen. "I am going out now. If Mr."—and he gave a number of instructions about people and things which, as they have nothing to do with this story, need not be repeated.

When he finished his directions the lawyer went his way to the Temple Station (calling *en route* at a dingy-looking house in Portugal Street), and from thence took train for Sloane Square. He did not immediately proceed to Hans Place, but repaired to the nearest post-office in order to despatch a telegram, brief but pregnant.

"That will fetch him," thought Mr. Steen, with a feeling of grim satisfaction.

He walked briskly to Hans Place, where the staid butler said Mr. Tercett was at home, and, in answer to inquiries, added that his master had not been very well, but seemed a little better.

"Nothing could be going more prosperously," Mr. Steen decided. "Mrs. Tercett was absent," her husband stated' while rejoicing over a visitor who came to break the tedium of his loneliness. "My sister-in-law met with an accident so she is gone to see her, and won't return till late. What good wind has blown you here, Steen? I don't think you ever came to see me in the daytime before."

"I cannot remember that I ever did, but I am afraid the wind you speak of is not a very good one. It is your cousin."

"What! Is he in trouble again?"

"In very serious trouble, I fancy."

"Why he was here yesterday, and told me he would soon be out of all his difficulties."

"No doubt he thought so."

"What is it now?"

"A writ, for one thing."

"How can we help him?"

"I do not know, unless you are prepared to pay all his debts, and that would only leave him free to incur fresh liabilities."

"You are always hard upon the poor fellow."

"Well, I won't say anything more about him till I can say what I mean before his face. I have telegraphed for him to meet me here."

"But he is at Brighton."

"He can come from Brighton, I suppose; there is a good service of trains. Now will you give me some luncheon, and let me play at being master in this house just for one afternoon? I have a reason for the request."

"And a good one too, I am sure; so play at anything you like, so long as you will stay for dinner."

"Thank you"; and Mr. Steen took up a bottle which bore the name of I. Hepplethorn, 3 Beaufort Place, W., and, in addition, "To be taken three times a day."

"Medicine as usual!" he said, with a laugh.

"Yes; I was feeling a little run down, and Osmond advised me to have Dr. Varvill's prescription made up again. I feel better for it already."

Mr. Steen did not laugh as he replaced the bottle; rather he shuddered as he thought of the grim "might have been."

Time went by. The butler had been sent on an errand likely to keep him absent for hours. Mr. Steen conferred with the upper housemaid, who, acting on his instructions, pulled down all the blinds in front. Though well trained, the woman was so amazed by this order that she ventured a remonstrance: "People will think there is somebody dead, sir."

"Never mind," was the answer; "do as I tell you."

Shortly after that mystifying performance, a shabby and melancholy-looking individual made his appearance, and was told by Mr. Steen to sit down in the hall.

If such horrors had been possible in Mr. Tercett's house, he might have been taken for a man in possession.

After luncheon, Mr. Tereett himself was requested to remain in his study—a small back room on the second floor—till the arrival of his cousin, and Mr. Steen waited downstairs with no company save his thoughts and the dancing firelight.

At last there was a sound as of a hansom being driven at top speed—on and on it came—then the pace slackened, and the vehicle stopped opposite Mr. Tercett's door.

Out of it stepped Mr. Osmond Tercett, who threw one comprehensive glance over the house, and then rang the bell—not too loudly.

The melancholy man answered the summons. To the newcomer there was nothing unfit in the fact of his doing so—quite the contrary.

"When did my cousin die?" asked Mr. Osmond.

"I do not know, sir. I have not been here very long," was the reply.

Mr. Steen heard question and answer as he stood ready to receive the man who walked into the dining-room, confident that he was the owner of Templedale and its lordly income.

"This is very shocking, Mr. Steen," he said in a sad, subdued tone.

"Very, indeed."

"It must have been very sudden."

"Ill news is always sudden. Good news lags sometimes so long that it never comes at all."

Mr. Osmond Tercett reflected that one piece of good news had not tarried by the road, but as it would not have been seemly for him to say so, he sat down and covered his face with his hands, as though heart-broken.

Mr. Steen gave him ample opportunity to indulge his grief; indeed, it was not until many minutes had elapsed that he asked, "Would you not like to see your cousin?"

Mr. Osmond Tercett uttered a constrained "Yes" softly. He could have dispensed with seeing his cousin, but, feeling under the circumstances it was the proper thing to do, followed Mr. Steen up the staircase, where their footsteps fell noiselessly.

They ascended to the second floor, but did not enter Mr. Tercett's bedchamber, Mr. Steen opening the door of that

study to which his companion concluded "IT" had been removed.

The fire was low, the day dull and gloomy, and the room consequently dark. Mr. Osmond Tercett glanced around, but could see nothing of trestles—or—a coffin.

An armchair stood on the hearth, which seemed to be occupied. Perhaps his cousin had died in it and could not be removed till after the inquest which would, no doubt, have to be held.

Mr. Steen stooped over the something in the chair, and said, "Mr. Osmond Tercett!" and then a well-known voice exclaimed :

"I am so glad you have come. I think I must have been dozing, for I did not hear your ring. Why, what is the matter, Osmond?" he added, as the other, cowering, backed away from his outstretched hand.

He had come into the room sure of fourteen thousand a year, and now—THE MAN WAS NOT DEAD!

At that moment Mr. Steen lit the gas, and turned it up full, so that Mr. Tercett beheld, appalled, the look a lost angel might have worn when cast out of heaven.

"What has happened? What is wrong?" he asked, trembling under a shapeless horror which seemed overwhelming.

"This is some witless jest of yours, sir, I presume," said the younger man, addressing Mr. Steen in a voice choked with rage.

"If it were a jest it would indeed be a witless one," was the answer.

"You told me my cousin was dead, and brought me up here to see—"

"Him—not his corpse!" interrupted Mr. Steen, "and I never said your cousin was dead. I telegraphed I had bad news for you, and I have—in your opinion, doubtless—the worst of news: that Mr. Tercett is, as you see, alive and well, and that your vile plot to poison him has failed utterly."

"To poison me?" exclaimed Mr. Tercett. "That can't be true. Why should he wish to poison me? I never did you any harm, Osmond."

"Harm!" with a mighty effort. "Of course not."

"Of course not!" repeated Mr. Steen, mocking the guilty man's tone. "Good only, by receiving the rent-roll he coveted—by standing between him and fourteen thousand a year!"

"It is an atrocious lie!" exclaimed Osmond Tercett, replying to Mr. Steen's accusation rather than to his later speech. "Why should I try to compass my cousin's death? Even had I wished to do so, how was I to give him poison?"

"By tampering with Dr. Varvill's prescription—by substituting for a harmless quantity of strychnine enough to kill half-a-dozen men!"

"Tampering with Dr. Varvill's prescription! My good sir, you have made a woeful mistake. If there be anything wrong with the medicine, you had better complain to the old imbecile who made it up instead of insulting me!"

"And may I ask why you went to an old imbecile for your cousin's medicine? It won't do, Mr. Osmond Tercett; to that 'imbecile' your cousin owes his life. Where is Dr. Varvill's prescription? Produce it, and we shall soon see whether what I have asserted be true or not."

"Do you suppose I carry prescriptions about with me? I tell you I know nothing about the matter. If anything were tampered with—which I don't credit—it must have been by that man in Moor Road."

"And what interest could he have in poisoning your cousin? No; as I said before, it won't do. You had every interest in committing such a crime. You are at your wit's end for money. There is one writ, at all events, out against you, and probably many more. You have failed to raise the smallest sum on your reversionary interest. Even the

sixty-per-cent. men won't do any more of your paper. Your game is up, my friend. You had but one card left yesterday, when you played it and lost."

"Jack, to you I appeal. Stop Mr. Steen's slanders. There is not a word of truth in these calumnies. He always hated me, and has trumped up this horrible story to set the only real friend I possess in the world against me. We have always been like brothers—nearer than any brothers ever were. There is not a man on earth I love and trust as I do you. Won't you believe me?"

Mr. Tercett stood beside the chimneypiece, supporting his head with one hand—stood like one dazed—stricken.

"I want to believe no evil of you," he answered slowly, "but I can't get over the evidence of your own face when you saw me—alive!"

"I was startled—"

"Ard—disappointed. No; I can't get over that fact. If you had been glad—good heavens! if you had cared for me even a little—the joy of such a meeting would almost have sufficed to turn your brain. If you had been glad—but there is no use in talking about that, for you were sorry."

"Of course, Mr. Steen has prejudiced you against me," began the other.

"No one could have prejudiced me against you except yourself. The indictment is too true, and it has pierced me like a sword. Of course you must not starve. I will talk matters over with Mr. Steen, and see what we can arrange; but we must not meet again. From this night our roads lie apart."

"You are unjust, Jack—you are condemning me without hearing my defence—you are treating me worse than if I were the greatest criminal that ever existed. I am poor, I admit, but is that a sin? I am in difficulties no doubt"—Mr. Tercett winced, remembering—"but I shall get over all that—if—if only you will not cast me out utterly from your heart and your home. I want no more money from you—keep it; don't load me with any more favours—only never imagine I contemplated the awful wickedness of which Mr. Steen accuses me—and let me keep some place in your affections, my more than brother."

Mr. Tercett raised his head and looked at the speaker—looked at that false handsome face as if he would read the very soul of which it was a mask—then, "Ah, Osmond!" he said, and let his head drop on his hand again.

There ensued a dead silence which no one broke—for something in the tone in which those two words were uttered made them sound like a funeral service read over a dead thing once full of beauty and vitality.

Twice the younger man opened his parched lips as if intending to speak, and twice he closed them again without carrying his intention into effect.

Mr. Tercett's love had been very great—his friendship very true—but there was no warmth or life in either any more: they were killed, and there was greater hope for a tree that is cut down than for them.

Realising this, Mr. Osmond Tercett turned to the door and, speaking no syllable, walked out of the room and down the stairs, closely followed by Mr. Steen.

"Good evening" said that gentleman, as they stood on the threshold; but Osmond Tercett made no reply—only passed forth—foiled—into the night.

When the lawyer's promised communication reached Mr. Isaac Hipplehorn that gentleman was ill in bed. He lay there for a long time hovering between life and death, but at last he returned from the borderland to find his affairs had been taken in hand by someone more competent than himself—someone with the Templedale rent-roll at his back, and all the knowledge of the (modern) Egyptians at his finger-ends.

He it was who induced the landlord to accept another

tenant, and persuaded that tenant—not by any false pietenees—to pay a moderate sum for the lease and goodwill.

He it was who "arranged" that Mr. Hepplethorn should take over old Mr. Howard's business situate in Water Street, Temple Mills—a prosperous town distant about three miles from Templedale.

He it was who settled everything on the most favourable terms; and he it was, finally, who sent Mr. Hepplethorn the title-deeds of his new freehold premises, together with the most charming letter from his principal, stating, among other pleasant things, that a thousand pounds was lying to his credit at the Meadowshire Bank in Temple Mills, which Mr. Tercett boped he would accept as a small evidence of his gratitude and respect.

Nearly eleven years have passed since then, but the chemist has not again been tempted by Satan. He has let well alone, and prospered exceedingly. His eldest son is a partner in the Temple Mills establishment, which is a very thriving concern. His second boy, having a taste for surgery, passed all his examinations with credit, and is now a rising man in London. Hal is in Mr. Steen's office, and the other members of a large family are doing equally well; but never to wife or son or daughter has Mr. Hepplethorn, even in his most confidential moments, confided the story of Dr. Varvill's prescription; for he is, to quote Mr. Tercett, "as honourable as clever—as unselfish as wise!"

THE END.

#### PHARMACY IN TURKEY.

MR. H. S. DJELALIAN, of Constantinople, now a student at the Massachusetts College of Pharmacy, contributes to the *New England Druggist* an interesting note on pharmacy in Turkey. Mr. Djelalian traces the rise of modern pharmacy in his native country to the first year of the Crimean war, 1854, when a great European hospital for British soldiers was established in Constantinople, and to the reorganisation about the same time of the Turkish army on a French model, and the consequent introduction of military surgeons. Soon afterwards scores of young Turks, Armenians, and Greeks went to Paris to study medicine, some of them attaining even a European reputation. One, Dr. Horasanian, a well-known Armenian practitioner, is now the professor of pathology in the Imperial Medical College, and is regarded as the highest medical authority in the land. Pharmacy at this time became a distinct profession, and many new shops were opened in the capital and in other populous cities of the empire. The Imperial palace on the Bosphorus has now a magnificent dispensary under a professional chemist.

But the present state of pharmacy is still far from meeting the needs of the people. There is not throughout the country a single college of pharmacy endowed with chemical and pharmaceutical laboratories. A few lectures on pharmacy are delivered in a general way at the Imperial College of Medicine in Constantinople. There is no degree of graduation in pharmacy, but the authorities are pretty strict on one point, which is that a student cannot enter the school unless he present a certificate of three years' practical experience in the business. This is justified by the fact that there is no pharmaceutical laboratory course in the curriculum, and, therefore, the only place for the tyro to get an experience is at the dispensing-counter in the store. There are State Boards both for physicians and pharmacists, and according to law a practising physician may not dispense or carry on a pharmacy, and vice versa. The person who has a title for both professions is obliged to choose between them. The reason given for this is that if a man be both physician and pharmacist he will use his influence with the patient in the interest of his pharmaceutical establishment. The significance of this precaution is easily understood in a country where cities of 40,000 population, for instance, have only two or three drug stores, and the prices are not regulated by free competition. Still, there have been doctors who have secretly gone into partnership with

the druggists, strongly recommending them to their patients. There is no national l'harmaceutical Association, nor a national Pharmacopoeia, the French Codex being used as a reference-book.

Prescriptions are written in French, even by Turkish medical men. The pharmacist is expected to translate the directions to the patient into Turkish, Armenian, Greek, or Hebrew, as the case may be.

The names of a great many drugs are of Arabic origin, and have passed with slight variations into many European languages. Thus the Arabic or Turkish word "Anison" survives in the English "Anise" "Kiaphiri" in Camphor, "Murr" in Myrrh, "Aphion" in Opium, "Biber" in Pepper, "Zaffran" in Saffron, "Saleb" in Salep, "Sina Meki" in Senna (Mecca), "Sisam" in Sesame, "Sumbule" in Sumbul, "Tirementine" in Turpentine, and "Zengephil" in Zingiber.

As to commercial pharmacy, there are no wholesale druggists for manufacturing laboratories in the British sense of the term. The population of the country is about thirty millions, and that of Constantinople (with its immediate suburbs) one and one-half million. The Customs-duties are only 8 per cent. at the present time. The country produces many crude drugs which pre-eminently meet an important part of the needs of the laboratory. For instance, the finest kind of opium is to be bought in Asia Minor, a principal market of which, Eski Sbebir, is only two days' trip by train from Constantinople.

An American druggist on modern lines would be sure to succeed, and as the capitalist would be under the immediate protection of the U.S. Legation, he would be perfectly safe in his business transactions.

As to the future of pharmacy in Turkey, the progress of the present over the past has been so great that it inspires us with great hope. The Sultan, Hamid II., is a guardian of education and encourages educational institutions. Communication with Europe and America having been so greatly facilitated, and the study of European languages having spread, it is hoped that the rulers of the Empire will shortly take as important steps in pharmacy as they have already taken in medicine.

#### BAUXITE.

BAUXITE, says the *Liverpool Journal of Commerce*, was practically unknown before 1870. In 1872 Messrs. George G. Blackwell and Alexander Sutherland arranged a lease with the Marquis of Downshire for a very large royalty, consisting of 2,000 to 3,000 acres, at Irish Hill, Staid, near Ballyclare, co. Antrim, Ireland, and in a year or two afterwards produced a splendid quality of bauxite, testing about 54 per cent. alumina in the dry state and from  $1\frac{1}{2}$  to  $1\frac{3}{4}$  per cent. iron. At this time the demand for the mineral was very limited, but, as chemistry progressed, it found a considerable outlet in the manufacture of alum, sulphate of alumina, and alum cake. Its chief use, however, set in when Mr. B. E. R. Newlands, then manager of a sugar-works in London, conceived the idea of running liquid sulphate of alumina on to the large proportion of useless waste which, up to that time, remained in the manufacture of beetroot sugar. By this means 20 per cent. of sugar were found to be recoverable from the waste, while the potash present in it converted the sulphate of alumina into crystal alum, which was worth more than had been paid for sulphate of alumina. Mr. Newlands was anxious to produce his own sulphate of alumina, and, in order to convince himself that there was a sufficiency of this material available, he visited the mines at Irish Hill, and returned satisfied that there was an abundant supply of the mineral. Large quantities of this ore were soon afterwards shipped from the mines to Mr. Newland's works, and, following in the wake of this, the mineowners received large orders from the States and Germany, and also from the various alum-manufacturers in England and Ireland. Subsequently a large demand for bauxite sprang up for the manufacture of firebricks, earthenware baths, and aluminium. The mines are now worked by a company, in which the Blackwell family still hold a large interest. The shares are in a few hands, and their value, which is still increasing, is much above par.

## A WHOOPING EXPERIENCE.

I AM a father and a pharmacist, and have always felt a certain degree of distinction in both capacities. But I begin to question if there is any peculiar distinction in being a pharmacist. My babies have been the innocent means of convincing me that this is a mistaken pride. They have taken whooping-cough. First one dropped away from school, then another and another, until the lot were afflicted by the unconscious nervous tickling which produces that fearful cough. As the spasms grew in intensity my professional pride waned, for I discovered that all my friends had not an atom of respect for my position as a pharmacist. They were so liberal with their advice. Everyone wanted to cure my children.

I don't know why this should be. When the babies had the measles we were shunned, and no cures were offered. My experience of measles is that you can never work up interest in them. I suppose the disorder may fairly be put down as plural: it was in our case. Whooping-cough is the antithesis of this. You can scarcely mention it to man or woman before you have the whole thing explained and what is the cure. I had four cures given me in one day—two of



"Oh, it's easily cured," said he.

them from Major men, who, I can honestly say, are, on pharmaceutical topics, men of the greatest influence, in the first rank, without prejudice, calm and level-headed.

"Oh! do you live near a gasworks?" asked the first.

Now, I fancy that I am a respectable man, and not one of those who think the best way to raise the masses is to live amongst them. If I did I should not select a section of the community who have squatted around gas-retorts and gasometers. In such thoughts as these I lost the point of my friend's question. "The air cures whooping-cough, you know," he hastened to explain, and the information he added was so convincing and valuable that I left him much happier than when I met him. The only thing that astonished me was that whooping-cough exists at all. The cures which have been effected near gasworks are marvellous in number and thoroughness.

When I think of it now they all seem to date back a generation or two, but that did not trouble me then; the problem which I had to settle was how to administer the remedy. We could not take the children on daily visits to gasworks, for the doctor had warned us against exposure and draughts, which might give rise to bronchial complications. It seems that without such *sequela* the mortality of

whooping-cough is *nil*. Here was a case, then, in which neither could the mountain come to Mahomet nor Mahomet go to the mountain. A sort of amateur gasworks in the house was impracticable.

For two long hours I was in a mental ferment of methods for carrying out my friend's advice, and had almost settled upon a scheme when the second Major man stumbled against me.

"What's the matter?" said he. "You look worried."

I explained in as light a way as I could, for No. 2 is a man of great common sense, and his knowledge of things pharmaceutical is astonishing. There is no use making a fuss with him, he takes things *sc* lightly. And so it was with whooping-cough. "Oh! it's easily cured," said he; "give them a decoction of chestnut-leaves—not horse-chestnut, the American chestnut, *Castanea* something. I cured two children with it in a night or two. It's nasty stuff to take, but it cures them."

When I got home I looked up an American Dispensatory about this remedy, and there I found that *Castanea vesca* is the tree which Brown referred to. It is one of the Cupuliferae, and grows abundantly about the Alleghanies. The leaves are tea-like, and huchu-like in respect to the fact that they contain a peculiar mucilaginous principle, to which the peculiar properties are due. It seems that the leaves were



First came the pastor's wife.

first brought into "regular" practice about thirty years ago, and a Cincinnati doctor used them extensively and valued them highly in the treatment of whooping-cough. "Since then most favourable reports have been made by other medical gentlemen as to their value."

I specially admired that elegant phrase, "medical gentlemen." Americans do that sort of thing so nicely compared to us; we class all—even our medical baronets—as "medical men," and they like it, or at any rate do not "kick."

The Cincinnati medical gentleman employed an infusion of the leaves, an ounce to the pint, and gave it in tablespoonful doses, repeated several times a day.

There were other facts to go upon. As it happened I had to attend a Chnrch social that night. There is nothing on earth like a Church social for ferreting secrets out of a man; and I was not long there before cures began to pour on me. I was meek under it all, for I had not yet got rid of pride in my professional knowledge, and wondered why everybody advised me. First came the pastor's wife: "Oh, dear Mister Blank, do burn cresoline. It is so good for them at night. When my babies had the whooping-cough I never got rest until I tried it. It was Mr. Treasurer who told me about it, and I got his lamp. Ah, Mr. Treasurer, good evening. You remember you told me about cresoline, and gave me your lamp?"

"Oh, yes, we cured Bobby of whooping-cough with it. It's a marvellous thing, Mr. Blank—the essence of gasworks, our doctor told us."

I need not go further. Here was a solution of Smith's problem. Of course, I knew all about cresoline, for I had sold it often; but it would be too much to expect every pharmacist to be *au fait* with the properties of everthing he sells. So I visited the parsonage that night to get a loan of Mr. Treasurer's cresoline-lamp. It comes from Boston, U.S.A., and sells at 7s. 6d. Too high, in my opinion, for a shilling or two-shilling article would do quite as well, and would make cresoline more popular. At any rate, in my case, the lamp which had been donated to the parson's wife for congregational purposes, as it were, came in handy. We burnt cresoline in the children's bedrooms that night.

This did not end the stream of advice. A retired druggist of the old school was my next sympathiser, and Roche's embrocation was his *arcaneum*.

"Use the genuine thing," he said; "it's four-and-six a bottle retail. Rub it on the chest and back at night. It gives wonderful relief."

"That's made of oil of amber, cloves, and something, isn't it?"

"I think not." My friend is exceedingly deliberate in speech, and each word falls from him as if its weight were duly reckoned. "I think not. There's otto of roses in it, I'm sure, and that's why it's so dear."

"But they can't put much otto of rose in a 2-oz. bottle for 4s. 6d. Isn't it oil of rhodium?"

"Perhaps, but no matter—it cures whooping-cough."

This recalled to me a conversation I once had with one of the maker's men, who said that in all the published formulae one ingredient had never been hit on, and I wondered if that could be the otto. At all events, the favourite formula for the imitation, which is given in the *C. & D. DIARY* this year, must be wanting in something, for, though it relieves, it does not cure whooping-cough. I have tried it.

I was now beginning to be sceptical about cures. Many things were mentioned to me which have slipped my memory since. I fear that I was rather curt to one gentleman, who has some veterinary knowledge, and strongly recommended a "receipt" in one of Chavasse's books. "A grand thing," he said, rolling out "grand" in most impressive style. "Rub it down the spine at night. It cures them—absolutely cures them." This was too emphatic for me. But I was not done. "Have you tried bromoform?" asked a smart young medical student. I had not, and he proceeded to tell me of some wonderful cures with bromoform in his "ward." This remedy seems to have come to the surface again. It has been a periodic new remedy for whooping-cough ever since I have been connected with pharmacy, and I have been told by several medical men that, like chloroform and iodoform, it does relieve the spasms.

I am now at the end of the regulation course of the disease, and according to tradition I should have been out of the wood. If I am not I can at least say that I know something about whooping-cough, and there are sad experiences as well as trivial to look back upon. Whooping-cough is almost as contagious a disease as scarlet-fever or measles. No child who has it should be allowed to go to school, or to mix with other children. It takes a week or fortnight before the distinguishing characteristics manifest themselves. During that period the patient appears to be suffering from an ordinary though severe cold. I proposed ipecacuanha and the usual cough-remedies during this period, but our doctor pointed out that there was bronchial secretion enough, and that it should rather be kept down. This was what he gave:—

Cocaine	..	..	..	..	..	gr. iss.
Acid. hydrobrom. dil.	..	..	..	..	..	3 <i>lij.</i>
Spt. vini gallici	..	..	..	..	..	3 <i>ss.</i>
Syrup. limonis adl	..	..	..	..	..	3 <i>lij.</i>
Ft. mist.						

From a half to a whole teaspoonful of this was given, and at a later stage, when the spasms were exceedingly severe, a half-minim of dilute hydrocyanic acid was added with beneficial results. But the doctor was always emphasising the importance of keeping the children in the same room day and night, and maintaining the temperature at 65° F. Occasionally it would happen, especially during the night,

that the fires would go low and then it was that the chorus of coughing began.

The doctor tells me that after the catarrhal stage is over the disease is not, strictly speaking, a bronchial one, but is an affection of one of the nerve-centres at the base of the brain. It is uninfluenced by medical treatment; that is, it cannot be cut short or cured.

I find that view supported by Dr. William Osler in his "Principles of the Practice of Medicine." He says:—"After lasting three or four weeks the attacks [of the 'whoop'] become lighter, and finally cease. In cases of ordinary severity the course of the disease is rarely under six weeks. The medicinal treatment of whooping-cough is most unsatisfactory. Like other infectious disorders it runs its course practically uninfluenced, in a majority of cases, by drugs."

The fact of the matter is, of course, that the nature of the disease is not yet fully understood. It is wise, therefore, to treat it as an infectious disease which must run its course, and there are three aphorisms for guidance:—

Keep the patient in a warm room.

Keep quiet and prevent excitement and change, which favour complications.

Feed well and often.

As I have said, whooping-cough of itself is rarely fatal, but the deaths from it in the United Kingdom are reckoned by tens of thousands yearly. These are due to bronchitis or pneumonia, the result of carelessness or exposure.

#### ENGLISH OIL OF PEPPERMINT.

HIRSCHSOHN, who has for a long time been reporting to *Pharm. Zeit. für Russland* on the characteristics of essential oils, deals in one of the most recent papers with ten specimens of ol. menth. pip. angl. The following is a brief account of the results with each specimen:—

R, an oil from England, made in 1888, almost colourless and of fine odour. One part dissolved in 20 parts of 70-per-cent. alcohol. On rectification 93 per cent. of purified oil was obtained in nine fractions (temperatures not stated); the proportions were, beginning at the lowest, 22, 17, 13, 10, 10, 10, 8, 2, and 1. One volume of the first dissolved in 18 volumes of 70-per-cent. alcohol, the second in 6, the third in 3·4, and so on in decreasing proportion. Ferric chloride gave a faint olive-colour with fractions 3 to 8, and bromine-chloroform gave a beautiful raspberry red with 1 to 3, none with 4 to 8, but a fine violet with 9. Compare with the foregoing the same brand of oil distilled in 1889 and 1890. The 1889 yielded fractions almost the same in quantity, but the solubility in 70-per-cent. alcohol for the first was 1 in 7·8, for the second 1 in 10, the third 1 in 3·4, and approximately the same for the remainder. The first distillate gave the cineol reaction, otherwise the reactions were similar to the above. The 1890 make yielded a first fraction of 18 and a second of 16 parts, the former dissolving in 14 and the latter in 4·2 parts of 70-per-cent. spirit. Another English brand, "DR," was also examined. The 1888 make dissolved in 3 volumes of 70-per-cent. alcohol; the fractions were 18, 16, 14, 14, 10, 10, 10, 6, and 1. One volume of the first dissolved in 13 volumes of 70-per-cent. spirit, the second in 3·3, and the eighth in 14 volumes. The 1889 and 1890 distillates showed but slight variation from these numbers, except that there was no abnormal solubility of the later fractions. The colour-reactions were similar to those of R.

A German sample was marked "Mitcham, extra stark." The fractional distillate amounted to 98 per cent., and except that the fractions from the outset dissolved in less than 1 in 4 of 70-per-cent. alcohol, it did not differ from those already noted. Another, of 1890 distillate, marked "Oil extra" agreed in characters with the 1890 DR, and was probably the same oil. B oil was marked "Mitcham" and yielded figures closely akin to the first DR, except that the first fraction dissolved 1 in 10 of 70-per-cent. alcohol. The tenth specimen "not rectified" was not unlike the first one referred to, except that the initial fraction was much more soluble in 70-per-cent alcohol—viz., 1 volume in 5·6 volumes and the fractions were more coloured. This oil gave the cineol reaction.

It thus appears that English oil of peppermint found on the Continent is not very constant in composition, the variation in the lighter terpene-content being especially noticeable

## THE AMERICAN MUSK-RAT.

(THOUGH UNPROTECTED BY MCKINLEY, HE HOLDS THE FIELD AGAINST ALL COMERS)

**A**N interviewer of the New York *Sun*, who had acquired some vague notions concerning musk, and thought that a sketch of the commercial history of that drug would make good copy, dropped into the first drug-store on his way in search of information. The druggist was evidently a match for the *Sun* man, and promptly told him a tale of the growth of a new American home industry in musk, which must have set the readers of the *Sun* wondering at the marvels of their native land next morning.

"As to musk now," was how the literary *Sun* man commenced his inquiries, "I daresay that the race of fragile but aromatic little deer from which musk is obtained must be nearly extinct by this time, is it not?"

"Well," replied the frank druggist, "it is not the fragile and aromatic little deer that furnishes the musk I sell. That fragile and aromatic little deer isn't any nearer extinction now than he was when he first began to dive and burrow, and that was way back in the pristine years."

"Why," exclaimed the *Sun* man, "doesn't the animal that supplies the musk of commerce live among the palm-clad hills of Central Asia, where picturesque native hunters follow its tiny track, risking their lives and undergoing great toil and hardship to secure the almost infinitesimal sac which envelopes the precious perfume, and by painful journeys of miles and miles bearing it to the marts of trade, where it is sold for many times its weight in gold?"

"Yes," replied the druggist, "I've heard of that. But the way I find the facts is different. The animal that supplies the musk of commerce around these parts lives largely in those luxuriant realms of bog and malaria known as the Jersey marshes, and I never knew the following of its trail to be attended with much of anything but a jug of rum and a long-handled spear. The hunters are picturesque, though. An old fur cap, a large chew of tobacco oozing over an unprotecting red goattee, a pair of indiarubber boots filled with the legs of hickory overalls, and a long lank Jerseyman—that ought to pass for picturesque, hadn't it? But none of these hunters ever said anything to me about an infinitesimal sac enveloping precious perfume, nor ever complained about having to journey many painful miles and miles to reach the marts of trade, nor have I any recollection of their demanding many times its weight in gold for the precious perfume. Not any hunters that I ever dealt with. They just jumped aboard a ferryboat, landed on this side, hoofed it up here, and, chucking on the counter what they had to sell, said:

"There ye be, cap'n! Didn't hev much luck yester'd'y, an' only slashed the pods out o' ten. They're good uns, though. O't to be wuth 10c. a pair, cap'n."

"Yes," continued the druggist, "those picturesque hunters who risk their lives on the trail of the musk-deer in Central Asia mountains can do better by packing their grips and coming over here and chasing the wily musk-rat on the Jersey marshes. They might have to wear more clothes, but they'd get more musk and find a market right under their noses. Yes, my son. The effete orient is no place for the musk-hunter nowadays. The robust occident beckons him and he had better come. He needn't fetch his spear with him. He can get onc here for 50c."

"Bnt," insisted the seeker after information, "surely somebody sells the genuine oriental musk yet."

"Yes—oh, yes," replied the frank druggist. "There's a great deal of it sold yet, but it's all nonsense. What's the use? A drop of Jersey musk will reach just as far and last just as long as a drop of the most aristocratic article that ever came from Asia. A lady carrying a drop of the imported musk to church with her will not make her neighbours a bit sicker than if she had insinuated some of the home-grown stuff into her garments. Neither will the high-collared youth who sits down next you at the theatre. Then I say, what's the use? There ain't any. No one can tell the difference, and I keep the home articlo. Some of the finest and most delicate colognes I sell to-day get their pungency from the aromatic secretion of the musk-rat of the Jersey marshes. I mention myself, but if I should place one hundred New York druggists in a bunch and let you chuck a stonc at the bunch, you couldn't hit a man that doesn't

have just as intimate relations with the Jersey musk-rat as I have."

"Then," said the information-seeker, "the Jerseymen who hunt the musk-rat must make a nice thing out of it."

"As far as it goes, yes," replied the druggist. "But as ten or a dozen pair of musk-rat pods will make enough extract to last a year in any drug-store with a fair trade in perfumes, there might be more money in it for the hunters than there is. But then, you see, the musk-pod isn't all there is to the musk-rat. He is an animal of great resources, the musk-rat is. For instance, he furnishes the material from which many thousands of sealskin caps, gloves, muffs, and trimmings are made; and he is, to a large extent, the rabbit-stew of the cheap restaurant. So you can readily see that neither the musk-deer, the seal, nor the rabbit will be extinct so long as the great American musk-rat lives, moves, and has his being."

## GOLD AND SILVER EXTRACTION.

MUCH progress has been made during the past year or two in the extraction of gold and silver from the ore by the cyanide process. This is not new by any means, but considerable improvements have been effected on the methods hitherto in application, with the result that there is more efficient extraction of the precious metals, and a considerable saving of solvent. In the United States the process in use, according to Professor Sadtler, is Simpson's. In this the damp tailings of gold ores are charged into wooden vats of a capacity of 50 to 75 tons, and the vats are filled to within a few inches of the top; cyanide solution of 0.6 to 0.8 per cent. strength is then allowed to flow into the tank until it is completely filled. This solution remains undisturbed for twelve hours, when it is allowed to drain through the false bottom of cocoanut matting, below which is a layer of coarse sand and pebbles, and from this through an iron pipe to the "zinc-boxes," when precipitation takes place. As the liquor is drawn off during the leaching process, it is replaced by fresh solution. This operation is continued from six to twelve hours, according to the value of the tailings. At the end of this period, which is known as the "strong-solution leaching," a weaker solution (0.2 to 0.4 per cent. of cyanide) is turned on and allowed to remain from eight to ten hours. Various slight modifications of the process are in use here and there with a view to the saving of cyanide. In the "zinc-boxes," which are wooden troughs, shavings of zinc are put in to cause the deposition of the gold as a finely-divided black slime upon their surface. After passing the "zinc-box" the "exhausted solution," which contains a mere trace of gold, flows into a storage-tank to be used over again. Very great loss of cyanide takes place by secondary decomposition of the potassium salt, due to the galvanic action of the gold-zinc couple that is formed. The slime of finely-divided gold and silver, with a large proportion of zinc and lead and smaller amounts of tin, antimony, and accidental impurities, after thorough settling is transferred to enamelled-iron pans and carefully dried. It is then mixed with sand, borax, and bicarbonate of soda and melted in a crucible yielding a bullion about 650 fine.

In the Molloy process, which is in successful operation in South Africa, the use of zinc is dispensed with. The cyanide solution from the leaching-tanks passes through a shallow trough containing mercury, in which is an inner cylindrical vessel filled with solution of carbonate of soda; the edges of the cylinder just dip beneath the mercury so that its contents are entirely cut off from the outer portion of the vessel. A rod of lead dips into the soda solution; the lead and mercury are connected with opposite poles of a battery, and the solution is electrolysed by the passage of a current. The sodium combines with the mercury to form sodium amalgam, which at once decomposes the gold-cyanide solution with formation of ordinary gold amalgam, sodium cyanide being simultaneously produced. It is claimed that much less decomposition of the cyanide takes place than with zinc, and, moreover, that the outflowing solution is better adapted for dissolving fresh quantities of gold. In the ordinary method a large accumulation of zinc in the solution must take place, which in time renders it valueless for gold-extraction, whereas sodium cyanide is just as effective as the potassium compound.

# The Antwerp International Exhibition.

(SECOND NOTICE.)

## METALLURGY.



OT to have heard of JOHNSON, MATTHEY & CO. (LIMITED), of Hatton Garden, is to argue oneself unknown in pharmacy, and chemists visiting the British Court will certainly pause a moment before the modest-looking case that contains the exhibits of that great firm of metallurgical chemists. As the stand is not of those that arrest attention by a striking exterior,

I may add that it reposes beneath the shadow of Hampton & Sons' stately pleasure dome, which is the most obvious landmark of the British Section. Rare metals are the speciality of the firm, and in their case they show, as a curiosity, pea-sized pellets of pure metallic melted osmium, an extremely rare element, which is found in combination with platinum, and which has been used pharmaceutically, in the form of osmic acid, in conjunction with suboxygenised air, as an inhalant in tuberculosis of the lungs. Iridium, also in the pure melted form, is shown in much larger pieces, while another dish close by contains pellets of rutbenium, purified by the application of the electric arc. The most valuable single object in the exhibit, however, is an ingot of pure palladium, weighing 1,000 oz. Troy, and representing a value of about 7,000*l.* In spite of its great nominal value, it may safely be left quite unguarded, for it would prove a white elephant to anyone who possessed himself of it surreptitiously, as it could not possibly be negotiated without certain detection, if indeed a market could be found for it at all. Palladium, which much resembles platinum in appearance, and is also found associated with the metal in the same ore, is used pharmaceutically only as a reagent in the testing of iodides, its surface being blackened by iodine, whereas platinum is not affected by that element. The rarity of palladium is illustrated by the fact that it required 2,250,000*l.* worth of native gold and platinum to extract the weight of the ingot here shown. Reflected historical interest attaches to a plaster cast representing a 100-kilo. ingot of pure platinum, which was melted by the agency of intense heat of combined gases, at the works of the firm, thirty-two years ago, to prove the commercial practicability of the process for recovering the metal in a pure state. Pure boron in blackish crystals, and bright orange nitrite of ruthenium and sodium (used as a purple dye for silk), also deserve mention.

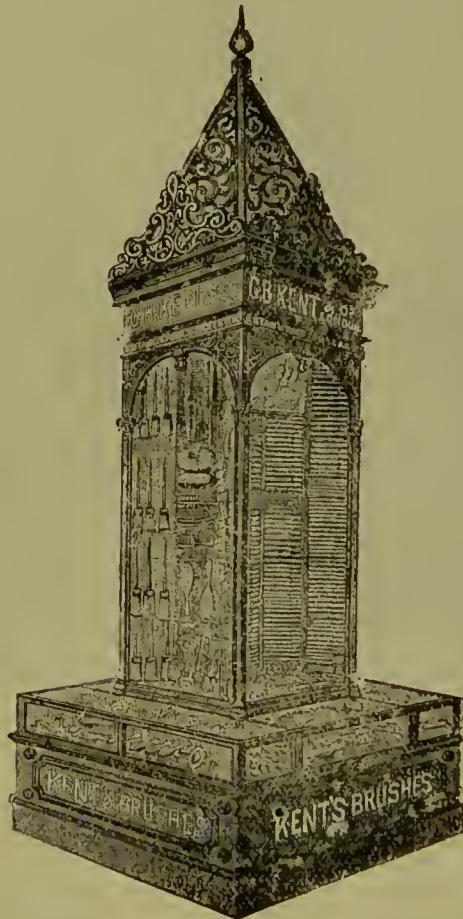
But all these metals, however rare and valuable, are only side-dishes, so to speak, to the centre-piece of the exhibit, which consists of platinum apparatus for concentrating sulphuric acid. Such a plant, according to Delplace's system, of a capacity of 10 tons, o.v., per twenty-four hours, costs about 3,800*l.* A bright-polished metal bar of pure iridio-platinum, of which the accompanying figure represents a section, shows the standard metre-rule adopted by the International Commissioners for weights and measures. The platinum in this bar is of a purity of 999.98773.

To turn from an exhibit of this class to the pungent showcase of JOHN GOSNELL & CO., all brass fittings and bright labels, feels like dipping straightway from a study of Herbert Spencer into *Tit Bits*. But the cherry-blossom odour assails the wayfarer too powerfully to pass unnoticed. Suffice it to say, however, that the benzaldehyde scent is the sole representative of what I may call the realistic school

of perfumery. It hangs about a considerable portion of the British Section, possibly to the delight of many.

## BRUSHES.

The reputation of English brushes abroad is as old as that of all other English toilet-articles. It is somewhat of a disappointment, therefore, to find only two English firms in this trade among the exhibitors. The better-known of these are G. B. KENT & SONS, 11 Great Marlborough Street, London, of whose handsome case we give a sketch below. The Messrs. Kent are, apparently, at some disadvantage compared with the other firm, in that their stand is a closed case at which no one is in attendance to give informa-



tion. The reason is that the firm's business is with dealers only, and that it would not pay them to keep an employé on the spot simply to satisfy the curiosity of the general public. Messrs. Kent's exhibit contains some excellent specimens of high-class brushware, the most attractive-looking articles being ivory-backed brushes, made in England, and then sent to Japan to be decorated there with bird and flower designs by native artists.

HINDES (LIMITED), Birmingham, occupy a larger space than Kent & Sons, and adopt a different system for showing their goods, a pleasant-spoken saleswoman expounding to all and sundry who look in at the stand the merits of the "Very" brushes, and of a certain new kind of hair-curlers, which appear to effect their object by what manufacturing chemists would call the "cold process." The peculiarity of the "Very" brush is that it has only a few bristles, not fixed

directly upon the wood at the back, but upon a flexible Indian rubber cushion. This brush is said to be particularly suitable for thick-haired women. Then there is the "Gladstone" brush, all made of one solid piece of brown wood, the bristles being fixed right through the back, the "Ladies' Military," without haudle, and so forth.

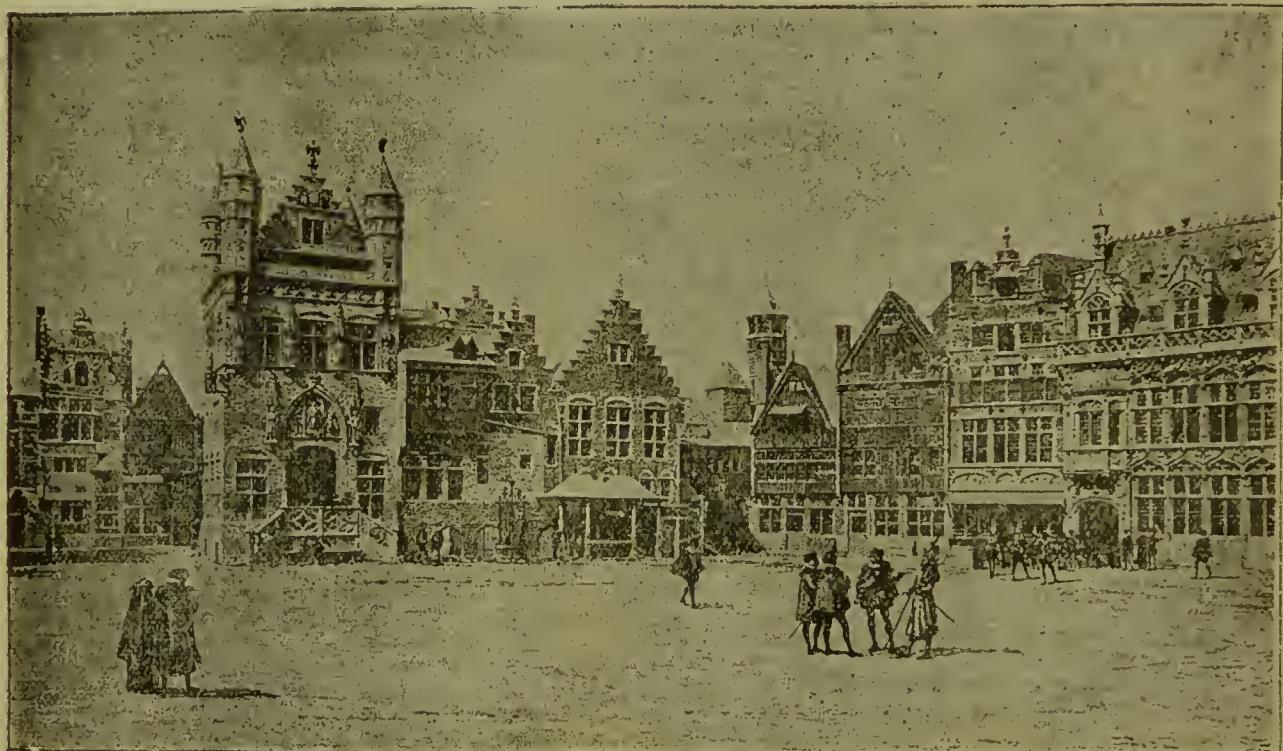
## FOODS.

The firm of BRAND & CO., 11 Little Stanhope Street, Mayfair, London, are not among the houses that think it proper to appear at a continental exhibition with nothing but English price-lists and catalogues. My attention was first drawn to their handsome stand by an invitation, in French, asking me to pay a visit to No. 15 of the "Section Britannique," where a representative would be present from 10 to 6 to give information. The informant proved to be a lady who regularly attends exhibitions for the firm, and who is thoroughly posted about Brand & Co.'s specialities. She represented the firm at Chicago last year, at Rome this spring, and is looking forward to a visit to Buda-Pest next September.

invalid specialities, for which there is a much better demand there than for the ordinary potted meats.

SPRATT'S PATENT (LIMITED), Bermondsey, London, have adopted the useful plan of giving away small coloured pictures of dogs of various breeds, bearing upon the reverse recommendations of their "*gâteaux pour chiens*." These are much appreciated, although the picture advertising the "Canary-paste" appears the first favourite, the Belgians being inordinately fond of domestic birds of all kinds.

THE BOVINE FOODS COMPANY, Pocock Street, London, S.E., are represented by a small show of their specialities. The Belgian gentleman in charge of this exhibit was very severe upon his countrymen for their propensity to grab all the "literature" they could gather at the stands, and obtain free samples wherever possible, without carrying their enthusiasm for new things to the extent of putting their hands in their pockets. "That," he said, "is typical of my countrymen. Since the opening of the exhibition they have taken 2 cwt. of '*rêlame*' from this stand, but since January we have only sold about 3 tons of the food."



THE "OLD ANTWERP MARKET PLACE, WITH TOWN HALL, DRAPERS' HALL, AND SHERIFF'S HOUSE.

The firm's specialities include almost all imaginable delicacies in the way of soups, preserved meats, meat-essences, sauces, &c., and the double showcase at which the lady dispenses gratuitous drinks of the firm's hot beef-tea (temporarily replaced, during the summer weather, by beef lozenges) is none too large for the many preparations it is expected to hold.

"Don't you find it difficult to sell these high-class goods here on account of the duty?" I asked.

"Not very. We have a demand for our goods all over the Continent. Besides, so far as Belgium is concerned, meat-extracts are free, although there is a duty on sauces."

Among the comparative new articles shown at Antwerp by the firm are raw extract of meat-juice in flat bottles to retail at 3s. each. This substance, being pressed from fresh meat at a low degree of temperature without undergoing any process of heating, contains the albumen in an uncoagulated state, a fact which is perceptible on warming the juice, when the substance turns quite solid. The "Real Turtle" soup for invalids is now obtainable in "half-small" tins at 1s. 9d. as well as in the larger-sized receptacles. This innovation will be particularly appreciated in the hot summer weather, when delicacies of this kind soon become unfit for use. The main part of the continental business of the firm is in

I will mention, in passing, two small exhibits in this same corner.

## DUMMIES.

COLEMAN & CO., of Norwich (whose name, by the way, has unaccountably been left out of the catalogue of the British Section), show their "Wincarnis" extract of meat and malt wine. The stand is not an imposing one, and the firm have adopted the reprehensible system of representing their goods by a pyramid of empty bottles, only the topmost one being apparently filled with the liquid which is imbibed by the languid invalid lady on the showcard affixed to the stand to restore the roses to her cheeks. These dummy exhibits meet one everywhere in the main building. Why they are admitted at all is more than I can tell. Surely if it is worth people's while to compete in an industrial contest of this kind they might do so with the stuff which they are actually manufacturing, not with the bottles and wrappers that are merely incidental to their industry. There is one such exhibit in the German Section, purporting to show a certain kind of alcoholic stimulant, but, as a matter of fact, consisting simply of the cardboard wrappers in which the bottles are put. Its total value is well below eightpence,

and a gentle shake would make the whole concern tumble down like a house of cards.

"Ah, but," said an exhibitor to whom I communicated these views, "you don't know how things are stolen at these shows. If I had put up filled bottles in my stand they would all have been abstracted by now." To which the obvious answer is that the alleged proneness of the public to bottle-snatching could easily be overcome by enclosing the goods, as some exhibitors have done, with a stout wire net.

The "Exhibit" of the "MOUILLA POTASH LIQUID-SOAP COMPANY, 6 Adam Street, Adelphi, W., affords another instance of how not to do it. It consists principally of five dozen cardboard covers on a common wooden stand covered with a bit of scarlet cloth, left blooming alone in a corner of the British Court. The inventor of this liquid-soap, it would seem, was a Dr. James Duncan, sen., physician to the Imperial Russian police. The properties of the soap (an orange liquid) have, no doubt, caused such a rush on it that the company had only half-a-dozen bottlefuls to spare for the Antwerp Exhibition, representing an aggregate retail value of about half-a-sovereign.

#### SEEDS AND SUNDRIES.

Wedged in between a large case of Pain's fireworks (this British firm, by the way, are the contractors for the supply of fireworks to the Exhibition) and a couple of leather exhibits, is a modest stand owned by LANGTON & BICKNELL'S, 89 Newington Butts, London, containing crude and refined sperm oils and spermaceti. English refined spermaceti, as is well known in the trade, always realises a considerably higher price than the American-refined article, and, judging by appearance of the brilliant white blocks of the substance which form the main attraction of Messrs. Langton & Bicknell's case, the preference is well deserved. The firm, we also observe, are among the minority of British exhibitors who have had the good sense to label their wares in another as well as in their native language.

DAY & MARTIN, 49 Borough Road, London, occupy a small but well-placed stand close to the British Commissioner's Court. The case does not contain quite such an imposing selection of goods as one would have expected from so well-known a house—one which claims to be the "largest and oldest blacking-factory in the world." The "Real Japan liquid blacking," bearing as a trade-mark the number of the old High Holborn factory of the firm, is the principal constituent of the exhibit. The old firm, however, have yielded to fashion to the extent that they are now also making a speciality of "rinsset cream" for brown boots. The increasing use of this kind of raiment, by the way, is reputed to account for the high price of beeswax during the last few years. Harness-blacking, waterproof-paste, and violet ink complete the show.

There is no finer exhibit in the British Section than that of SUTTON & SONS, of Reading, and few of equal interest. Messrs. Sutton have a large space against the wall at the back of the building, and on Sundays the gangway in front of their showcase stand is often blocked with quaintly-dressed country people from Flanders, Southern Holland, and the Walloon country, delighted to recognise, among the many strange sights of the Exhibition, the familiar face of the Crimson King turnip or some monstrous variety of cucumber in wax. Messrs. Sutton's exhibit consists chiefly of farm and flower seeds, specimens of natural grasses raised upon various soils from seeds supplied by the firm, and wax imitations of huge fruits. There is also an interesting assortment of coloured plates and photographs of the different business-departments of the house. Belgium is a great agricultural country, and the farmers are evidently much interested in this particular exhibit; but your Flemish, Walloon, or Dutch soil-tiller shakes his lymphatic head regretfully at the English superscriptions over the photographs and the absence of all information in the way of literature intelligible to himself.

#### WATERS, SALTS, AND SOAPS.

Not far from Brand's stand is the handsome showcase in which IDRIS & CO. (LIMITED), of Pratt Street, Camden Town, London, show their mineral waters and fruit-juices. Mr. Hillman, who is in charge of the firm's exhibit, told me that at present Idris & Co. have no agent for Belgium, but might shortly make an experiment with that market. He

thought well of their prospects of success, "for, mind you," said he, "a lot of English-made mineral waters are sold in this city, and Idris's goods are second to none." The large pyramid of bottles in the case contains quite 25 different kinds of mineral waters and fruit-juices, from the old fashioned ginger-beer in stone jars to the latest non-alcoholic cordials. The base of the pyramid consists of syphons for which Idris & Co. manufacture the tops, so as to be able to guarantee the purity of the metal. One side of the stand is devoted to the "Viking" preparations, of which the firm are the proprietors. Perhaps the most interesting thing in this section of the exhibit is a bottle of turtle-soup which, between May, 1885, and February, 1886, made the journey from England to Melbourne and back in the *Carlisle Castle*. The Master's certificate of the accomplished journey hangs beside the bottle, of which the contents look as fresh to-day as they ever did. Essences of turkey, chicken and mutton, sauces, and "Viking" beef-jelly make up the exhibit.

Table-waters are further represented by W. A. ROSS & SONS, of Belfast, and by the "JOHANNIS" COMPANY. The Irish house show their ginger-ale, lemonade, and cordials in bottles placed by twos or threes in a kind of cruet-stand arrangement. Showcards in five languages, adorned by representations of the national flags of Britain, France, Germany, Spain, and Holland, testify to the firm's devotion to the cultivation of foreign relations. The Johannis Company's stand is a rather odd one, the bottles (mostly dummies, again) being arranged in three pyramids on an American desk, at which the exhibition representative of the company is supposed to sit for the purpose of affording information.

The GLASS-LINED SYPHON COMPANY (LIMITED), of London and Paris, are the only firm in their trade in the British Court. Their double case of variously-coloured syphons and seltzogenes makes rather a pretty show. Most of the bottles are covered with wire or bamboo netting to prevent accidents in case of breakage.

TIDMAN & SON, Bushell Street, London, E., have a small stand about 6 feet high, the lower part of which is filled with bags of Tidman's sea-salt, the commodity for which the firm are so well known. Above this are two shelves of toilet-soaps, one of perfumery, and one of mixed articles. Not so long ago attention was called in THE CHEMIST AND DRUGGIST to Tidman's specialities; almost all those enumerated on that occasion are shown in the firm's showcase. Pumice-soap, salicylic-acid soap, and tooth-soap tablets are among the most noticeable.

The exhibit of JOHN KNIGHT & SONS, of the Silvertown Soap-works, London, E., is well worth inspecting. Its chief contents consist of toilet-soaps, but there are a number of side-shows devoted to the by-products of the works, such as glycerine, linseed-cake, manure, and bones. Then there are household-soaps—the firm claim that they are the originators of the "primrose-soap"—and soft-soaps for washing sheep and hops. But "Ariston" is the chief article. It is a transparent toilet-soap that has stood the test of time for more than a generation, for in 1851 Ariston was awarded a prize at the first international exhibition ever held (that of London), and the old certificate hangs in the showcase at Antwerp in commemoration of that event. England generally comes off well in soap-exhibits, and the stand just described is no exception to the rule, although it must be acknowledged that so far as arrangement and beauty of packing are concerned, the London firm cannot compare with some houses in the French and Austrian Sections. Messrs. John Knight & Sons also have a considerable business in the seed-crushing line, and we are given to understand that their refined cotton-seed oil is much relished by thousands of Britshers in the firm belief that it is the best Lucca salad-oil.

I am bound to say that even in the British Section the showiest, if not the best, exhibit of soap is not an English one at all, but belongs to an Australian house, W. H. BURFORD & SONS, of Adelaide. I recollect this pushing firm because I had observed a similar show of their soaps and candles among the exhibits of "natural products" of Victoria at the Imperial Institute some months ago, though at present, I believe, their goods have been removed from that place. The Antwerp case has apparently found a resting-place here on its way back from Chicago; the soaps are a little the worse for wear, the glass above them showing

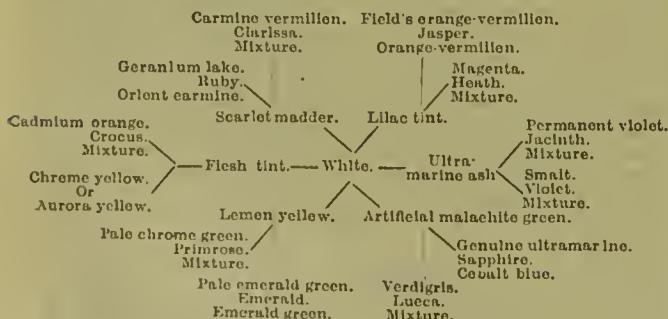
a considerable deposit of alkaline crystals, but otherwise they make an effective show below the Alpine peaks of the candle pyramids that adorn the top of the case.

The somewhat unmelodious name of "Pepperette" covers a small cone-shaped metal box in which JOHN FREDERICK & CO. (LIMITED), of Daiston, claim to send out absolutely genuine ground spices. The pepperette, they plead, somewhat negatively, is "not an unsightly addition to any dinner-table"; and, as a matter of fact, the man who likes vermillion ornamentation on his dinner-table may here obtain his wish, while even he who yearneth after a pea-green pepperette may gratify the hankerings of his heart. The "pepperette" is a small tin castor with automatic closure, filled with ground spice, as much of which as is desired may be ejected at will, the remainder being kept securely from contact with the outer air by the automatic valve. Though the pepperettes can hardly be said to satisfy aesthetic cravings they are undeniably useful.

The great tea industry is represented in the British Section by at least two of its followers. One of these rejoices in the title of the INDIAN PLANTERS' CO-OPERATIVE TEA SUPPLY ASSOCIATION (LIMITED), of 37 St. Mary Axe, London, and supplies the tea used by the refreshment contractors for the British Section. The I.P.C.O.T.S.A.L. at their stand show packet-tea and water-colours of scenes at an Indian tea-plantation. The BRITISH TEA AND TRADING ASSOCIATION (LIMITED), 118 Southwark Street, London, show "Imperial Mandarin," and "Blue Cross" Ceylon teas.

#### THE AESTHETIC COLOUR-CIRCLE.

In a further corner of the British Court, bard by the spot where a Coventry firm show a weaving-plant at work, and where the large exhibit of a West-end furrier adds torture to the scorching sun-rays, is a handsome display of artists' colours by the firm of WINSOR & NEWTON (LIMITED), of the North London Colour-works, at which a representation of Ruskin's Aesthetic Colour-circle is the chief attraction. The "Circle" is composed of nineteen dishes, each filled with a different pigment. The large centre dish contains white; around it are grouped half a dozen containing respectively green, blue, purple, scarlet, orange, and yellow, and, in an outer circle, twelve others (two to each of the six principal colours) filled with pigments arranged according to Ruskin's system of the twelve zodiacal colours. The essential feature of this circle is that there is supposed to be an equal aesthetic interval between one colour and the next, and that any two colours placed directly opposite are considered to form a perfect aesthetic contrast, though they are not necessary complementaries in the scientific sense. The pigments in the dishes are, so far as it is practicable, made of the materials recommended by Ruskin, and are designated by the names he has given to them in the "Laws of Fesole." The "Colour-circle," which is as well known in art as the benzene-ring in chemistry, is reproduced below, the top name on the outer-circle rings being those by which the colours are known in the trade, the middle one the Ruskinian one, and the lower one indicating the substance of which the pigment is composed:



Another paint and colour exhibit is that of SISONS BROTHERS & CO. (LIMITED), Hull, a firm nearly a century old, who show colours both in the powder form and ground in oil. The latter form is almost unknown in Belgium, where the painters uniformly use hard pasto paints without either oil or siccatives. Enamel-paints are also among the firm's exhibit.

#### OTHER BRITISH EXHIBITS.

The PATENT BORAX COMPANY (LIMITED), of Birmingham, have a medium-sized, but rather attractive-looking, stand, all decorated in gold and white, which contrasts well with the glittering borax in the case. All the borax employed by the company, it would appear, is of Californian origin, and the numerous uses to which the stuff and its derivatives may be put in domestic economy are well illustrated. Quite twenty different modes of employing the popular antiseptic are expressed in such preparations as food-preserving fluid, extract of soap, voice crystals, starch-glaze laundry hue, and borax soaps and tooth-powder. Visitors are further considerably impressed by a huge gold medal, the size of a dessert-plate, on a blue ground, representing the Great Seal of England, under which the firm's patent (like all other patents) was granted. Tincal, the crude Tibetan borax, in small grey crystals, and Tuscanian boracic acid are also exhibited, though why they should appear in the case of a firm who use only Californian borax is not explained. The Borax Company also cultivate an export trade, in sign of which the chemical exhibitors in the German Section, just opposite, find the words "Borax Siefe" (*sic!*) staining them in the face on a large placard.

Close by the Borax Company's stand is a gigantic Chubb's safe, which forms at once the exhibit and, apparently, the exhibition office of that eminent firm, and between that safe and an empty stand, adorned by a "to-let" board, is a modest showcase, in which the inquirer will find the specialities of DUCKWORTH & CO., 93 Corporation Street, Manchester—to wit, essences for the confectionery and aerated-water trades. This exhibit was specially dear to me, because it stood in a nice quiet nook, where I could occasionally sit down on the broad edge provided by the case opposite (in recognition of which comfort I wish to tender my best thanks to Waterlow & Sons, Limited, the proprietors), and arrange my notes. In these stuffy, sun-baked Exhibition buildings, where hardly a single seat is provided for the tired sightseer,

"A moment's halt, a momentary taste  
Of Being from the well amid the waste,"

in other words, a temporary squat on some lonely exhibition stand, is always welcome. The brilliant effect of the sun shining through the bright coloured contents of bottles of Duckworth's soluble essence of capsicin and other preparations first attracted my attention to the stand, and I am sorry for the firm that it has not been placed in a better position.

In the grounds of the British Section is a reproduction of a Canadian log-cabin, of the conventional "backwoods" style, in which HIRAM WALKER & SONS (LIMITED), of Walkerville, Canada, show their "Canadian Club" whisky, and where the British visitor is hospitably received by Mr. Prytz, the firm's agent, who has an interesting story to tell of the firm and its speciality—the grain-distilled "Canadian Club" whisky. In Canada the Government do not allow any whisky to be placed on the market until it is two years old, and Messrs. Hiram Walker's distillate is matured, until that time arrives, in charcoal-lined barrels, in a warehouse capable of holding 4,500,000 gallons, in which the same temperature is maintained winter and summer. When bottled, the whisky is branded with the figures of the current year by the officer in attendance.

#### The Belgian Section.

GOVERNMENT AS A COMMERCIAL MIDDLEMAN.



Divided from the main portion of the Belgian Section by a tall partition is a prim, druggeted court hearing the Flemish legend "Belgische Handelsmuseums," which the intelligent Britisher, if he knows a little German, will rightly infer to indicate the exhibit of the Commercial Museums of the country. Anxious to learn something

of the working and influences of these undertakings, of which our own Imperial Institute is a sort of mam-

moth offspring, I handed my card to the dapper secretarial tenant of a prim office connected with the exhibit, and prepared for a chat. Though the secretarial aspect was official and correct in the extreme, I soon found that it covered an exceedingly courteous gentleman, and, if I may use so unconventional a term, a thoroughly good fellow to boot. This fact should be recorded, for courtesy and communicativeness are by no means prevailing characteristics among the higher officials with whom I was thrown in contact during my week's stay at the Exhibition. The "Commercial Museums" Court, having nothing gaudy or sensational about it, attracts but few visitors. Occasionally a sightseer, dissociating himself from the stream, would drift in like a straw in a back wash, only to rejoin the main flow as soon as he caught sight of the quiet-looking glass-topped, mahogany cases that enclose the Museum's exhibits.

The Secretary, a thoroughgoing believer in State-aided commerce, was justly proud of the organisation he represented. The Brussels Commercial Museum, he informed me, was the pioneer of the movement. It was established in 1880 for the purpose of gratuitously assisting Belgian traders to find markets for their products and informing them of the best sources from which to obtain materials of which they are in need. Told briefly, the Museum operates in the following manner:—A Belgian manufacturer or exporter wants to know whether he can sell his goods—let us say, matches—in South Africa. If the necessary data already exist in the Museum he can inspect specimens of the various kinds of matches already known to commerce in that part of the world, and obtain the names of the principal South African firms who handle the article and the prices and terms upon which matches are sold in that country. If the Museum has no particulars of the class of goods inquired for, all the Belgian Consuls in South Africa are instructed to obtain the fullest possible particulars of the trade in matches in their districts, and to send to the Museum sample packages of the brands used, together with what information they may be able to glean concerning the buying and selling prices. All this is communicated to the inquirer practically free of charge, and is recorded in the Museum archives for the benefit of all comers. The State supplies funds to its Consuls to buy whatever goods may be inquired for, and there is now at the Brussels Museum a valuable collection of miscellaneous merchandise from all parts of the world.

A monthly paper of trade news is published by the Museum in French and Flemish at a nominal price, and contracts advertised by foreign public bodies are brought under the notice of Belgian firms.

"That system of publishing contracts," said my informant, as he ran his hand over a list in the paper, "has been of great use to our industry. Here is the secretary of the 'Plaiston Manure Association,' in your country [the name must have gone wrong somehow], asking for tenders for 15 tons of nitrate of soda, and 154 tons of dissolved bones, and here, behold the Railway of Bengal and the North-West, who demand to be supplied with various railway materials. Some of our industrials will assuredly compete for these. When we commenced this publicity a Canadian Company was asking for tenders for railway-bridges; the Société Cockerill, of Charleroi, our great engineering-works, heard of this through our *Bulletin*, and obtained the contract, one for many millions of francs. The company gained, Belgian workmen gained, and the Canadian Railway gained."

"If anyone asks you for the names of manufacturers do you make a selection or give them all equally?"

"We give all on our list. The State cannot make distinctions between its subjects."

"Can foreigners obtain information?"

"Certainly. If they wish to buy Belgian goods we are only too pleased to supply them with names of makers."

"But if they want to sell their goods in Belgium?"

"Ah, that is different. We should take note of the address, and if we received an application from a Belgian house for the goods in question, and we were satisfied that they were not made in Belgium, we should communicate the foreign firm's name. But the Museum is, in the first place, for Belgians. I may tell you, however, that we have never received any inquiries from abroad."

"Do many people use the Museum?"

The Secretary, who had evidently expected this question, at once triumphantly produced a set of statistics.

"Our visitors," he said, "increase year by year. The Museum was founded in 1880. In 1884 the visitors numbered 13,576, in 1893 38,124. About half of them use the library only, the rest come to see where to buy or sell goods. Our Museum is a State affair, but there are municipal commercial museums at Antwerp and Liège. And there are many abroad, all modelled upon ours: 5 in Germany, 4 in Italy, 4 in the States, 3 in France, 3 in Austria-Hungary, 1 each in Portugal, Sweden, and Switzerland, and your own Imperial Institute."

Taking a walk through the court I noticed a great variety of goods—drugs, woods, fibres, earthenware, tinware, soft goods—all neatly ticketed with full particulars. The Belgian Diplomatic Agent in Mexico (for apparently the work of gathering information is not confined to consular officers) sends specimens of essential oil of lignaloes, prepared Mexican cochineal in small rose-coloured cubes, jalap, &c. I reproduce one of the tickets at random:—

LEGATION DE BELGIQUE A MEXICO.

ENVOI DU 10 JANVIER 1890.

Classe 12. No. 14

RACINE DE JALAP.

Provenance: Etat de Vera Cruz.

Cette plante est exploitée par les Indiens d'une façon très primitive.

This particular information is certainly elementary, and could be of little use to a drug-merchant; but with regard to many other articles the details communicated are sufficiently valuable to give a clever manufacturer wrinkles which he will not be slow to use. The Belgian Consul in Melbourne, for instance, sends a large assortment of jugs and other earthenware of English manufacture, illustrating the quality and pattern of goods most in demand in Australia, and quoting the English makers' price of each article. His colleague in Bucharest does as much for the common highly-coloured German plates and cups decorated with flowers unknown to botany that delight the Roumanian peasant. The cumulative effect of such efforts must tell in the end against the trade of the countries whose goods are ceaselessly subjected to this system. Call it spying-out and undignified, if you like, but admit that commerce is based upon practices of this kind, and that he who knows more than his neighbours has the greatest chance of reaping a profit.

TO PRESERVE BOOKS FROM INSECTS.—Though the destruction of books by insects is not so great in this country as in India, it is sufficient (*says Nature*) to give general interest in the result of an inquiry into the means of preservation adopted in Indian museums. In the library of the Revenue and Agricultural Department of the Government of India the books are disinfected by pouring a few teaspoonfuls of refined mineral naphtha, or what is known as benzine Collas, into the crevices of the binding, and then shutting up the volume for a few days in a close-fitting box to prevent the escape of the fumes. Books so treated have to be afterwards sponged over lightly with a very little of the finest kerosine oil, which should be rubbed off with a cloth before it has time to penetrate into the binding. Dr. George King reports very favourably upon a system adopted for preserving books in the Royal Botanical Gardens, Sibpore. It consists in brushing the books over with a saturated solution of corrosive sublimate made by constantly keeping a few lumps of that chemical at the bottom of a jar of alcohol, so that the maximum amount may be absorbed. In the Indian Museum Library the books are kept in close-fitting glass cases with a few ounces of naphthalene upon each shelf, with the result that little or no damage is caused by insects. It appears that the paste used in binding the Indian Museum books is poisoned by adding about  $\frac{1}{2}$  oz. of sulphate of copper to each pound of paste, while books already infested are disinfected by shutting them up for four or five days in a close-fitting box of loose naphthalene with as much of this substance as possible between the leaves.

## Drugs and Diseases.

### ALCOHOLISM.

Alcohol, taken to excess, destroys, hardens, and renders useless every organ of the body.

Intemperance is most pronounced in persons of an active excitable temperament, and obtains on them a greater hold. Idleness, great trouble or grief, an irritable brain, the thoughtless recommendation by a doctor of wine to a susceptible patient, are common starting-points of excess. It is generally agreed that alcohol in any form is bad for children.

### TREATMENT.

**Entire Abstinence** from all intoxicants is the only real cure for those who, possessing an unstable brain, drink to excess. If combined with a stay in an inebriate-home until the craving has ceased, permanent good may be done.

The **Swedish Cure** consists in isolating the patient and saturating all his food with alcohol until he absolutely loathes the sight and smell of the poison. Cures are often permanent. The ordeal is much dreaded by would-be drunkards who have once tried it.

**Vinegar.**—A wineglassful taken neat will steady a drunken person. Liq. ammon. acetatis, a full dose, is more pleasant and equally efficacious.

**Diet-cures.**—Many articles of food have been recommended from time to time. Copious water-drinking allays thirst and washes out the alcohol from the blood. If sufferers can be induced to drink skimmed milk or buttermilk they will continue taking it and avoid the spirit. Milk repairs alcohol-damaged organs, and is a wholesome nutritious substitute. Eating apples or fruit of any kind in large quantities is asserted to destroy craving for drink. Almonds, raisins, lump sugar, or pure sweets—even chocolate—are not merely nutriment, but in a measure quench thirst and diminish desire. Such articles can be carried in the pocket and eaten to escape temptation.

**Chamomile-tea.**—The soothing effect of inf. anthemidis on the digestive organs is well known. Put about a dozen heads in a teacup, pour on them boiling water, and let the hot infusion be taken habitually. It is a pleasant drink, and many people like it.

**Liq. Ammonia** is a very old remedy for alcoholism and a very good one—7 to 8 drops in half a wineglassful of water. It modifies the sensibility of the stomach and so acts on the nervous system.

**Potassium Bromide** 5ss. doses n m.que, combined, if desirable, with chloral and Indian hemp. Given alone in full doses it is one of the best remedies for dyspepsia. It soothes the nervous system, and is especially valuable if patients are idle or sleepless.

**Cocaine Hydrochlorate** gr.  $\frac{1}{16}$  to gr. ss. internally restores appetite, soothes the brain, and induces a feeling of contentment and calmness. A useful form for administration, if patient requires a stimulant, is coca-wine.

**Capsicum.**—m.v. of the tincture, combined with other hot camphoraceous drugs, is useful to allay sinking feeling and the morning nausea and sickness. Capsicum enters into the composition of many reputed cures.

**Iron** has been recommended. A good formula is:—

Ferri sulph.	..	..	..	..	..	gr. v.
Magnesia	..	..	..	..	..	gr. x.
Spt. myrist.	..	..	..	..	..	3j.
Aq. menth. pip.	..	..	..	..	..	3iss.

3j. t.d.s. in water.

**Ext. Camphab. Ind.** gr. ss. in pill t.d.s. arrests craving for drink by substituting another sedative for the alcohol.

**Morphia.**—Liq. morph. hydrochlor. 5ss., combined with inf. gent. co. 3j. or other tonics, allays the pain of alcoholic diseases. As a rule morphia should be avoided in treating dyspeptics, as they are very apt to continue it and become morphinomaniacs.

**Actaea Racemosa.**—m.v. to m.x. of the tincture is sometimes useful in alcoholic dyspepsia and neuralgia.

**Ipecac.** in small doses frequently, m.j. to m.v. of the wine, is said both to prevent and cure.

**Ext. Cinchona Fluid.** 5j. t.d.s. has been strongly recommended, and is very serviceable in mild or recent cases.

**Strychnine** given hypodermically has been well spoken of but should only be administered by someone having experience with the drug. It has been specially recommended in pill form — gr.  $\frac{1}{6}$  of the nitrate in each.

### DIPHTHERIA.

WHENEVER the gas from sewers permeates the atmosphere of a house, disease and death are the result. The germs originating in decomposing sewage-matter are virulent and poisonous. Diphtheria is one of the diseases they cause. The presence of diphtheria in a house is a warning of unsanitary surroundings—a warning which should always be followed by prompt action in inspecting the drainage.

Diphtheria is a disease common to all animals. It is most fatal to birds, such as pigeons or fowls; it also attacks cats, dogs, and other animals. Human beings take it readily. Diphtheria is a great slayer of children.

The disease attacks the throat principally. It is a sewer-plant and grows in the form of a greyish, leathery membrane, resembling somewhat the vinegar-plant. From this centre the system is rapidly contaminated and poisoned. Unless checked by appropriate treatment the growth of the plant extends until the air-passages are reached, or until the poison in the blood has become so concentrated as to destroy life.

### TREATMENT.

**Isolation.**—When a case of diphtheria occurs in a house it is not the patient who wants isolating but the defective drains. Attend to that, remove the odour of sewer-gas, and the disease will disappear. The people who are well should be transferred to a healthy house, for prevention is better than cure.

**Diet.**—It is most important to well sustain the patient's strength by a nourishing liquid diet. Eggs beaten up in milk, beef-tea thickened with rice or barley, milk-puddings or custards, ice to allay thirst or sickness, are suitable. Alcohol is necessary to support the patient's strength after the acute stage has passed or if the condition is critical.

**Eucalyptol Vapour.**—It is always a good plan to purify the atmosphere of the sick-room in cases of diphtheria. The best way to do this is to requisition a bronchitis-kettle, to the water in which 3j. of ol. eucalypt. should be added.

**Sulphur.**—The pure precipitated sulphur, given in syrup or glycerine, in gr. iij. doses every hour, is a veritable specific for this complaint, and cures it in five days. It should be given with caution and in much smaller doses to children under two years of age. Their tissues are frail and they do not well tolerate either drugs or disease.

**Salt Fomentations.**—Hot flannels wrung out of a saturated solution of common salt give great relief to symptoms.

**Lactic Acid.**—A spray or paint composed as follows has been used to dissolve away the membrane:—

Acid. lactic.	..	..	..	..	..	3iss.
Aqua	..	..	..	..	..	3x.

**Vin. Pepsin.** applied warm, with the view of digesting off the false membrane, has been recommended.

**Quinine.**—Used in the form of a spray or as a lotion, gr. viij. of the sulphate to 3j., quinine is a very valuable remedy for diphtheria affecting the eye—a rare form of the disease, and one which may lead to loss of sight.

**Iron.**—The tinct. ferri mur. in large doses, combined or not with potass. chlorate, is the routine method of treatment. It is not very successful, otherwise the death-rate would not be so high as it is.

**Tracheotomy.**—The operation of opening the throat is generally tried as a last resort, and few recover after the opera-

tion. If the tube becomes blocked an aspirator should be used to unblock it before having recourse to sucking it. When a sulphur treatment is early adopted this operation will seldom be called for.

### HICCOUGH.

A SPASMODIC contraction of the diaphragm, accompanied by spasmodic closure of the throat, is called hiccup. It is a common symptom in infants from overfeeding and curdling or fermentation of food. Adults get it as a result of faulty digestion, and heartburn or a sluggish liver are the symptoms that induce it most. Hiccup is never dangerous, unless under very exceptional circumstances indeed.

### TREATMENT.

**Domestic Remedies.**—It is surprisingly easy to stop hiccup when you know how to do so. A very considerable number of absurdly simple remedies are in common use. Applying cold water to the lobe of the ear, frequent sipping of cold water, counting 100 without drawing breath, warmth or pressure to the pit of the stomach, are all effectual expedients.

**Camphor and Antispasmodics.**—Warm camphoraceous drugs, such as spt. camphor., ether, chloroform, eucalyptol, are all good simple remedies for hiccup. A few drops may be administered on sugar. Chloral hydrate gr. v. t.d.s. will answer in more rebellious cases. The following also is good:—

Spt. aetheris .. .. .. ..	5ij.
Spt. arom. arom. .. .. .. ..	3ij.
Tr. opii.. .. .. .. ..	3j.
Aq. camph. ad .. .. .. ..	3vj.
3j. in wineglassful of cold water.	

**Alkalies.**—The best remedy for troublesome infantile hiccoughs is calcined magnesia, gr. iv. to gr. v., placed on the tongue or combined with a little syrup and aq. anisi.

**Acids.**—When hiccup is due to heartburn or acidity suitable mineral acids will allay it. Ac. sulphuric. dil. m<sub>ix</sub>, aq. menth. pip. 5iv. If mineral acids are not easily procurable, vinegar or lemon-juice will do instead.

### KISSING (DANGERS OF).

SOME clergymen have asserted that indiscriminate kissing is immoral. If they had objected on scientific grounds less severe criticisms would have been accorded them.

The ever-present microbe can be transmitted in this way by the saliva of an unhealthy person, if there be any abrasion of the mucous membrane of the healthy one.

Severe colds or coryza, tonsillitis, quinsy, sore throat, measles, syphilis, and other ailments or diseases, may be the price paid for this brief indulgence.

The Princess Alice, who died in 1878, incurred diphtheria, which proved fatal to her, through a kiss.

### TYPHOID FEVER.

**TYPHOID** fever is a true scourge of humanity. It is dangerous because it attacks vital parts, wearisome to the attendants on account of its duration and disagreeable symptoms, and it always attacks a whole district unless checked.

And the poor unfortunate patient! For three long weeks he is laid on his bed of sickness, unable to move, reduced with the most fearful diarrhoea. He is full of aches and pains, and life is bitter to him if he is not delirious.

Typhoid fever is a preventable disease, and yet over 20,000 people annually succumb to it in England alone. The specific typhoid microbes are introduced to the stomach through the medium of food, of milk, and water. It singles out the glands of the bowel (Peyer's patches they are called) for its destructive habitat. These glands become inflamed and ulcerated. It takes three weeks usually for them to heal up, and so the disease continues until they have cicatrised. The amount of fever, eruption, pain, or delirium depends on the severity of the

ulcerative process. By a study of the symptoms the degree of ulceration can be gauged.

Some die exhausted long before the turning-point has come, others bleed to death from the eating away of blood-vessels, or they succumb to peritonitis, the result of perforation of the intestine.

Happily, the knowledge of the causation of typhoid fever is now so accurate that the extension of an epidemic is at once prevented. The medical officer of health, on a case being notified to him, forthwith institutes inquiries as to the water and milk supply of the neighbourhood, and the threatened epidemic is nipped in the bud.

### TREATMENT.

**Hygiene.**—The patient should be in a well-ventilated room, from which all superfluous furniture or drapings have been removed. In winter a fire will help ventilation. Great cleanliness must be observed, and all discharges which contain the contagion must at once be adequately disinfected. In severe cases with much delirium, two trained nurses must be procured, one for the night, the other for the daytime. The friends should notify the disease to the proper authorities, and take steps to ascertain the purity of their milk or water supply. It is a wise precautionary measure to boil both the milk and water, to destroy any possible germs they may contain. The patient will generally fare best on a water-bed, which reduces the chances of bed-sorecs when he is at the most critical period. Also, if the fever is abnormally high, it is an excellent and safe procedure to reduce the temperature by placing iced water in the bed. This is far preferable to the ordinary cold bath or cold sponging.

Diet must consist entirely of milk, with or without lime-water, soda or seltzer water, and not more than three pints daily should be given. A little beef-tea or meat-juice may be permitted occasionally. All food must be administered at regular intervals and in measured quantity. No other food whatever must the patient have unless the doctor advises it, otherwise the sufferer may suddenly die from perforation or other complication.

**Alcohol.**—As a rule stimulants are prejudicial during the course of the disease, but, when convalescence has started, port-wine or champagne-jelly may be used to build up the strength by improving digestion.

Glycerine is useful as an aliment and mild antiseptic for sweetening purposes.

**Opiates** are called for to control severe diarrhoea or pain and any severe complications. By its constipating effects in arresting peristaltic movements opium at times is invaluable.

**Expectancy.**—It is the usual practice to subordinate everything else to scientific nursing and simple dieting such as suggested. This, it is thought, affords the patient the best possible chance of getting well. The physician merely, as it were, guides Nature while she makes her curative efforts to heal the ulcers.

Antipyrin gr. x. or more is employed to reduce fever if abnormally high.

Poultices to the right side of the abdomen, or, better still, hot poppy fomentations, are valuable for acute pain.

Ergotin hypodermically, gr. j. to gr. iij., for haemorrhage.

**Intestinal Antiseptics.**—The remedies which hold out the greatest prospect of prevention or cure are those which act as antiseptics to the intestine, and thereby heal the ulcerated patches. Unfortunately the majority of these, such as arsenic, calomel, iodoform, salol, or salicylic acid, are so irritating that their use is attended with much danger. The only antiseptics which hold out any possible hope of cure are eucalyptus oil m.v., in emulsion, quinine sulphate gr. iij., every four hours, and sulphurous acid.

**Sulphurous Acid.**—This antiseptic liquid has been largely used and glowingly spoken of. It should be given as follows:—

Acid. sulphuro. .. .. .. ..	3ij.
Syr. aurant. .. .. .. ..	3ss.
Aqua .. .. .. ..	3vij.
3j. every four hours.	

A proportionately smaller dose for a child. This mixture should be continued until the patient complains of a lucifer-match taste, which is an indication of cure.

## MODERN PHOTOGRAPHIC DEVELOPERS.

BY A SUBURBAN PHARMACIST.

A DIFFICULTY frequently crops up when an enterprising customer wants to know about some of the new developers, as all pharmacists have not the time or opportunity for testing their relative merits, and, curiously enough, dry-plate makers are, as a rule, very conservative in publishing suitable formulæ adapted to their plates, whilst the mixtures of mystery and mathematics given as recipes with the developers by the German makers only make the confusion worse.

The favourite developer after pyrogallol is, without doubt, hydroquinone or quinol. It is a dihydroxybenzene, isomeric with catechol and resorcinol. Quinol, as showing its analogy and relation to phenol, is the preferable name. It occurs as small whitish crystals soluble in 3 parts of cold water. Negatives produced by this developer are of a black and white character, with somewhat harsh contrasts, but, on account of the ease in obtaining density, it is much used by a large section of amateurs. The formula given with Ilford plates works splendidly:—

	A	B
Quinol .. .. ..	80 grs.	Sodium hydrate .. .. 40 grs.
Sod. sulphite .. .. ..	160 "	Potas. bromide .. .. 20 "
Water to .. .. ..	10 oz.	Water to .. .. 10 oz.

Mix equal parts just before use.

Softer results are obtained if a little water (say  $\frac{1}{2}$  part) is added to the mixture; development is slowed, and more under control.

Eikonogen, the sodium salt of amido-naphthol sulphonie acid is a developer introduced by Dr. Andresen. It is sent out in minute yellowish crystals, resembling in appearance tannic acid. Solubility, 1 in 33 of cold water. By its aid very soft negatives are produced, frequently of insufficient printing density. It has only about a third of the developing power of quinol. A mixture of quinol and eikonogen gives a good result, the quinol correcting the faults of the eikonogen. In the formula above substitute for half the quinol 50 grs. of eikonogen.

Amidol, or diamidophenol, is a patented developer, acting without the addition of alkalies, in the presence of sodium sulphate. There are two rival brands—Amidol-Hauff and Amidol-Andresen—although there does not seem to be any appreciable difference between them in use. Amidol is a crystalline substance of a light brown colour, fairly soluble in water; but it does not keep well when in solution. It is best added to the solution of sodium sulphite just before use. The makers recommend a little horn or bone spoon in which to guess the quantity. For a half-plate, 10 or 12 grs. of amidol are added to a solution of 50 grs. of sodium sulphite in 4 oz. of water, and 2 grs. of potassium bromide to give contrast and prevent fog. The sulphite is conveniently kept in a 10-gr. to 3j. solution, the potassium bromide as a 10-percent. solution. The sodium sulphite of commerce is generally contaminated with carbonate and sulphate, the former due to imperfect saturation with sulphurous anhydride, and the latter to the oxidising action of the air, or the use of an impure carbonate or hydrate. In making the solution any carbonate present should be neutralised with sulphurous acid, or, better still, with sodium bisulphite ( $\text{NaHSO}_3$ ).

Amidol developer acts very quickly, the image appearing in 20 to 30 seconds, and if the exposure is right there is no difficulty in getting a good negative in three or four minutes. Under-exposure is corrected by increasing the sodium sulphite and adding a little potassium carbonate solution, or, if this fails, after-intensification is resorted to. Too much sulphite causes fog. For over-exposure a weak solution with a considerable proportion of potassium bromide gives best results.

Metol vies with amidol at present for popularity, giving very similar results. It is a greyish powder soluble in water, with the advantage of keeping well. The formula of Mr. Andrew Pringle works admirably:—

	A.	B.
Metol .. .. ..	50 grs.	Potassium carbonate .. .. 1 oz.
Sodium sulphite .. .. ..	1 oz.	Water to .. .. .. 10 oz.
Water to .. .. ..	10 oz.	

Dissolve the metol first, then the sulphite.

For normal exposures 3 parts of A. to 1 part of B., adding to each ounce 20 m. of C. For snap-shots omit C.

A good one-solution developer is made as follows:—

Metol .. .. ..	75 grs.
Sodium sulphite .. .. ..	1 oz.
Potassium carbonate .. .. ..	1 oz.
Water to .. .. ..	10 oz.

To develop add an equal part of water, with a little potas. sium bromide if desired.

This is a good "special" developer to sell. Its full chemical name — methylparramidometacresolsulphonic acid — might serve to fill up the label.

Glyein, or parahydroxyphenyl glyein, is a slow-working developer, giving clear negatives of a grey-black colour, mainly used for copying and process work. It keeps well in solution, and with it plates of all manner of exposures may be developed in batches. Some workers claim it to be the best developer for lantern slides.

All the above developers are also much used for bromide papers and opals, and have the advantage over ferrous oxalate in not requiring a clearing bath, thus making one operation the less and reducing risk of failure.

## PHOTOGRAPHIC NOTES.

## CORRECTING DISTORTION.

IN portrait-taking everything must be in line if we are to have a perfect reproduction of the image. But that is never obtained in practice. Anything in front of the line, be it hand or foot, comes out larger, and anything behind the line comes out smaller than it should be. The difference may be slight, as it generally is in photos taken with good apparatus, but it is there, and is irritating to the true artist. Van der Weyde has invented a "photo-corrector" which annihilates the distortion. The result is said to be admirable.

## FLASH-LIGHT FOR PHOTOGRAPHS.

EITHER of the following mixtures gives a powerful light which is suitable for flash-light photography:—

(1)					
Parts					
Chlorate of potash .. .. ..	..	..	..	..	16
Aluminium powder .. .. ..	..	..	..	..	5·46
Black antimony .. .. ..	..	..	..	..	3·4

(2)					
Parts					
Chlorate of potash .. .. ..	..	..	..	..	6
Magnesium powder .. .. ..	..	..	..	..	3
Black antimony .. .. ..	..	..	..	..	1

## BEST CAMERA FOR BEGINNERS.

WE are glad to note that Mr. C. H. Bothamley, in a *Photography* editorial, supports what was said in THE CHEMIST AND DRUGGIST regarding the best camera for beginners. He says it may be taken as an axiom that the quarter-plate size is not at all easy to work successfully, because the smallness of the image makes it difficult to see exactly how development is progressing, and half-plate may be regarded as, on the whole, the most suitable size for a beginner.

## TONING-SOLUTIONS.

IT is a great mistake to make up toning-solutions with tap-water. The variable nature of the alkaline solids in the water gives most astonishing differences in toning with gold solutions made from hard waters. Mr. Ord has, very properly, called the attention of the members of the Coventry and Midland Society to this matter, and insists upon distilled water only being used.

## COMBINED TONING AND FIXING BATH FOR P.O.P.

MR. W. K. BURTON recommends the following formula:—

Hyposulphite of soda .. .. ..	..	..	..	..	3 flj.
Chloride of gold .. .. ..	..	..	..	..	gr. vij.
Water .. .. ..	..	..	..	..	3 xv.

Add a pinch of chalk to neutralise. The prints are placed in this without washing, when they turn yellowish-red, then

red, and finally brown. If removed while red the colour on drying will be purple-brown. If brown the final colour is nearly black, the whites are pure, and there is no loss of half-tones. It is well to note that this solution is not a permanent one.

## HOW LONG CAN UNDEVELOPED PLATES BE KEPT?

At a recent meeting of the Photographic Society of Great Britain, Mr. C. H. Bothamley described some experiments in the development of plates between two and three years after exposure. They were exposed in 1890-1, and not developed till 1893. Some were packed back to face, others film to film, wrapped in white tissue and brown paper, kept in a reasonably dry place, away from the products of the combustion of gas. The negatives obtained were all just as good as if the plates had been exposed the day they were developed. Mr. Bothamley therefore believes that, in a properly prepared plate, the latent image is, to all intents and purposes, permanent.

## FANCY NAMES.

"WE are not at all surprised that you are unable to obtain hypo-chlorite of lime at the local druggists. If you ask for 'chloride of lime' at the nearest oil-shop, you will obtain what you require." So writes a photographic contemporary in reply to a correspondent. There is a "fad" on just now of using solution of chlorinated lime for removing the last traces of hypo from negatives, and, of course, those who have recommended it, with the usual high regard for scientific parlance, call the stuff "hypochlorite of lime," which it is not. This note will put retailers on their guard.

## WHEN TO STOP DEVELOPING.

MR. ALFRED WATKINS, in a paper (*Amat. Photog.*, 313), gives useful data for calculating when to stop developing:— Pour on the developer as the hand of your watch points to an even minute and note down the time with pencil. Allow the sky and high lights to come up, but the moment the half-tones or the grass in a landscape negative make their first appearance out of the creamy plate note down the time. The difference between this time and that of pouring on the developer is the "time of appearance," and this multiplied by the multiplying factor gives the total time to develop.

The following gives some idea of the multiplying factor to be used, but with different workers it will vary, and also with different brands of plates:—

Pyro-soda (1 gr. pyro to oz.) ..	8 times	"time of appearance"
" (2 "     "     " ) ..	4	"     "     "
" (4 "     "     " ) ..	2½	"     "     "
Hydroquinone (any strength)	5	"     "     "
Eikonogen (any strength) ..	5	"     "     "
Metol (any strength) ..	18	"     "     "
Amidol (2 gr. to oz.) ..	10	"     "     "

Metol must be used with bromide (about 4 gr. to the ounce), or the time of appearance will be inconveniently short for observation. The strong point of the method is that the "time of appearance" makes the correct allowance for almost all the variations usually met with in practical work.

## NEW DEVELOPMENT OF CHLORIDE-PAPER.

ONE of the latest ideas for the treatment of argentic chloride-paper has originated with Mr. W. J. Wilson, F.C.S., of the Paget Prize Plate Company, Watford, and there has been quite a rage about it at the photographic societies. This is a little difficult to understand, for the process can scarcely be considered free from trouble, but the advantages are undoubtedly tempting to the professional man. Substantially the new process consists in converting the silver chloride of the gelatine film into silver bromide, then developing the paper.

The first operation after printing in the ordinary way is to immerse the print, before washing, in a 10-per-cent. solution of potassium bromide—AgBr is formed. With freshly-made paper bromising is complete in one or two minutes, but with old paper the immersion may be continued for from five to ten minutes. The film does not suffer from prolonged immersion which only renders the paper a little more tender to handle, but has the advantage of softening the film. Care must be taken that if more than one print is put in the bromide-bath at a time, "each should be

immersed and thoroughly wetted before the next is laid down." Special care is also needed to remove all air-bubbles, as they will if left, owing to the fact of the bromide not doing its work, cause dark spots in development. After removal from the bromide-bath, the prints are washed for three minutes in running water, and are then ready for development.

Mr. Wilson's formulae for developing are as follows:—

### *Solution I.*

Hydroquinone	..	..	..	..	$\frac{1}{2}$	oz.
Sulphurous acid	..	..	..	..	$\frac{1}{2}$	"
Sodium sulphite	..	..	..	..	$\frac{1}{4}$	"
Potassium bromide	..	..	..	..	60	grs.
Water to	..	..	..	..	75	oz.

### *Solution II*

Caustic soda .. .. .. ..  $\frac{1}{2}$  oz.  
 Sodium sulphite .. .. .. ..  $\frac{1}{2}$  ..  
 Water to .. .. .. .. 25 ..

### *Solution III.*

Bromide of ammonium .. .. .. 1 oz.  
 Carbonate of ammonium.. .. .. 1 "  
 Distilled water to .. .. .. 75 "

Equal parts of the above solutions are to be used.

With this mixture the prints are to be developed as in treating bromide prints. The time when development should be stopped is a matter of some consequence. In practice it is found that there is a tendency to over-develop. The image when developed out is of a yellow or pale orange tint, and does not seem to have the strength that it will have when subjected to the after-process of toning. The operation of development should be stopped as soon as the finest details begin to show. Upon taking the print out of the developing-bath it should be placed in running water, and the washing may be sufficient in the case of a single print; but if a batch of prints are being manipulated, it is best to rinse each one in water, and to place them in a second bromide-bath, leaving there for a minute or two, and thoroughly washing in water for five minutes or so.

The prints are now ready for toning, and Mr. Wilson states that the only gold-bath that is thoroughly satisfactory is a sulphocyanide one, containing 1 grain of gold chloride and 12 grains of ammonium sulphocyanide in 8 oz. of distilled water. Toning should not take more than ten minutes, and is generally completed in five or six. The tone of the print when dry is always colder than when taken out of the bath.

The advantages claimed for the process are a great saving of time, that printing can be done in almost any light and by a quite unskilled person, provided some record of the exposure is kept, and the greatest advantage is that on a dull day, when business with the professional photographer is slack, he can proceed to the finishing of his prints quite regardless of sunshine or light, or if a batch of prints are wanted hurriedly they can be exposed in a very indifferent light, developed and finished by gaslight.

## POSITIVES IN THE CAMERA.

FIRST make your negative in the usual way, then dip it in solution of boric acid ( $2\frac{1}{2}$  grains in 2 oz) until the image changes from black to red. Then work it in three changes of a solution made by mixing 2 drachms of saturated solution of chrome alum and 1 drachm of the boric-acid solution with  $12\frac{1}{2}$  oz of water. Then place the plate for a short time in the following solution:—

Next, immerse in a solution containing 1 grain each of caustic potash and bromide of potassium in an ounce of water until the red image disappears. It is then washed thoroughly and exposed for about thirty seconds to daylight, or from five to ten minutes to a gas-flame, after which it is re-developed with a weak paramidophenol or eikonogen developer, a positive being the result.

A DAY'S WORK IN THE NORTH  
BY A CHEMIST IN A MANUFACTURING DISTRICT.

NO Londoner, with a "select dispensing" business, can at all realise the nature of the great bulk of the chemists' trade of the country. To go through a week's work in this district would astound, if it did not shock, him. So convinced am I of this that in voting for the Council I always cross off London men, and vote only for provincial men.

A chemist of this place engaged an assitant from the South, and as soon as he entered upon his duties, a child came in and asked him for a penn'orth of chloride of lime; he never spoke, he never *smote*—he went into the back room, got his coat and hat, and was never seen again. He fled, he escaped, he levanted, *eripuit se!* I think it was John Bell who used to tell (no rhyme intended) as a thing to boast of that he often had twelve customers for a shilling; but here twenty-four are often served for a like amount, and another dozen thrown in gratis, made up of "What time is it?" "Change for a shilling," "Have you got a stamp?" heggars, pedlars, and travellers.

signments of goods to put away, and 'twenwhiles I am making ung. resinæ, ung. hydr. ammon. tinct. opii, and other galenicals, so that the time is all too short until half-past 12, when I adjourn to the back room for dinner. This is scarcely bolted, and no time allowed for a smoke, when I am summoned to an old woman, with a broken pitcher, who wants 2 lb. print, "same as that you mixed me about three weeks sin'." I hit the colour as near as I can remember, and during the mixing other customers are dropping in, and by the time these are disposed of, and work found for apprentice and errand-lad, it is 2 o'clock, and too late to think of any further leisure.

The housewives are out for the afternoon, and calling for various articles, asking my advice for their complaints, but generally ending by taking a box of Beecham's pills at 9½d. The routine is broken a little by the poisoning of a dog, and the butcher finds us a little surgical work in binding up a cut in his hand. Other customers crop up, and the afternoon is gone before any settled work can be attempted; and at 3.45 I rush to get a wash, perform a hasty toilette, assume clean apron and cuffs, and sit down to tea.

This is finished, with only two or three interruptions, at about 4.30, and, having lighted my pipe, I compose myself



The stock kept is very extensive; very different to a light dispensing business, where all can be kept in a small front shop. In my case, the shop is filled to suffocation, so as to have things handy, and store-rooms and cellars are piled to the ceiling. We do a trade with the workshops, and through the day have the filling of orders like these:—2 lbs. Venice turps, 28 lbs. best resin, ½ lb. isinglass, 4 oz. gelatine, firkin soft soap, 20 lbs. acid. acetic., 14 lbs. fish-glue, 10 lbs. white-lead, 7 lbs. red-lead.

In the following account there is not the slightest exaggeration, nor any attempt to draw upon the imagination: it is a fair and truthful statement of a typical day's work, which varies only with the season of the year. The time here treated of is that of garden and flower seeds and spring-cleaning materials. The day begins at 8 A.M. with a request for 28 lbs. each of cement and plaster of Paris, and a tooth to extract. The mill-men call and leave orders for cattle-drinks, linseed, Stockholm tar, and recipes of about a dozen ingredients, fenugreek, cummin, anise, turmeric, diapente, sulphur, pot. nit., &c.

We are filling up time by weighing whiting, lime-blue, and two or three dozen packets of garden-seeds. There are con-

for a quarter of an hour's quiet perusal of THE CHEMIST AND DRUGGIST. But this is not to be. I am called into the shop, and confronted with a commercial traveller—curse him! *En passant*, these drummers are a nuisance, and, with few exceptions, could be dispensed with, to the advantage of the chemist's time and temper and the manufacturer's pocket. Well, with a sigh for my interrupted pipe, I settle to work with him, and this and the serving of casual customers occupies the time until the buzzes are shrieking half-past 5, and there is no more peace for the wicked.

The workpeople are filtering in, on their way home, for miscellaneous wants, tooth-extraction, &c.

It is a curious business. At one moment of the evening I am serving a lady with a few light sundries; next minute I am messing with 1 lb. pitch, a quart of black varnish, "for a pigeon-cote," a gallon of cottonseed oil, a gallon of vinegar, soda, soft soap, calx. chlor., lampblack, &c.

After 6 we become busier, and there is first a succession of applicants for petroleum. The following are further examples of clients' requests:—Several lots of garden-seeds, various half-pint and pint bottles of British wines, 14 lbs.

canary-seed, 7 lbs. dog-biscuits, 7 lbs. whiting, 1 lb. Venetian red, 1 lb. copperas,  $\frac{1}{2}$  lb. lime-blue, a tin of paint and a brush, candles, packets of tea, tobacco, quart of boiled oil, quart of turps, prescription for mixture and pills, penny packets of herbs, from one to two dozen penn'orths of pills, ointments, powders, &c., a lamp-glass and ha'porth of "wake,"  $\frac{1}{2}$  pint red chair-varnish, a vermin-killer to sign for, with the inevitable remark, "Don't be afraid; do you think I want to poison myself?" spoken (in the broadest patois, impossible to reproduce), more teeth to extract, a bad leg to examine and find a suitable lotion for, a case of tic to prescribe for, a "ha'porth of hair-oil, and please put a cork in, and mother says you have got to send a book," and the gamut of popular patents is pretty well run through, together with the usual drugs and sundries, which I do not enumerate.

It is necessary to keep one's wits, and not to get flurried; to keep an eye on the stock, and watch the serving of the apprentice. Amidst it all I am trying to do a little correspondence, hooking, dotting things down on the work-list or in the want-hook; and at last—blessed sound!—the clock strikes 9, the last customer is got rid of (except the one who always tries the door), and the shop is left once more to darkness and the mice.

But even now I am not allowed to rest; the back door is besieged by several belated ones, and I am met by such remarks as "You're shut up soon, aren't you?" or "I didn't think it was so late." The day ends with a pecuniary result of, say, from 40s. to 50s., which probably entails more work and mental worry than 10% with a grocer or draper. And thus one is rushed through each week, from 8 on Monday morning to 11 on Saturday night, with scarcely a single half-hour of quiet leisure: it is very harassing, and would wear down the nerves of a Mataheli warrior.

But it makes good training for an apprentice, for, while it would be almost impossible for a Southerner to adapt or reconcile himself to it, a young man trained in this sort of mixed business can tackle any sort of work, and could take up a situation in any other class of business, whether purely agricultural or purely dispensing, as he has gained experience of every department of the chemist's business, and attained at least a certain degree of proficiency in all.

#### SOME OF MY CUSTOMERS.

BY A STORE CHEMIST.

ALL who have served for some time behind a busy chemist's counter know that the work of attending to the numerous and various wants of the customers becomes almost automatic and to some extent wearisome. From this cause one naturally turns for variation to scanning the customers themselves. In most businesses the clients are of some particular class according to the neighbourhood, but in businesses of the "Stores" character diversified types are met with.

It must be confessed that as shoppers the fair sex are streets ahead of men. They intuitively pick out the weak spots in a "deal," and have a perfect genius for worrying the life out of a harassed assistant. As a rule a man knows what he wants, asks for it, and goes away satisfied with his purchase, although he may not have got what he really did want; but a woman never knows exactly what she wants, and never seems to get it. She usually ends the transaction with the remark, "It's not just what I wanted, but I'll make it do." Some women, too, are punctiliously exacting, and I have often thought what a lively time a draper's assistant must occasionally have. One lady whom I used occasionally to serve—as seldom as possible, though—never could be properly attended to, and when her purchases arrived at her house invariably wrote a letter of complaint about something. When she was seen to enter the shop the assistants became remarkably busy, and the governor would take her in hand; fortunately, the usual letter of complaint always followed, even then.

Another troublesome customer was a portly old dame who was almost as deaf as a post, and carried an immense ear-trumpet about with her. She always asked an indefinite number of questions, the replies to which had to be shouted down the trumpet. Once she was being served by a junior

who happened to be rather a "raw" Scotchman. The old dame was inquiring about the action of cascara sagrada, which someone had recommended her to take. The shop was rather full, and the scene may better be imagined than described. I never saw anyone look more uncomfortable than the poor Scotchman; and he afterwards remarked that nothing would have given him greater pleasure than to empty the contents of the aqua destillat. bottle into the trumpet.

Although customers of this kind are troublesome, they are not nearly so much so as those who are deaf but who from false pride or some other motive try to conceal the fact. One frequent customer was a man of this kind. I was attending to him on one occasion when he was purchasing a chest-protector. After a long, and on my part a very loud, conversation, he was unable to determine which particular kind to have and I asked him with an aching throat and a voice getting hoarse whether he would take a single or a "double" protector. With a look of angry bewilderment he exclaimed, "Trouble! I give you trouble? What do you mean, sir?" And it was with some difficulty he was appeased and an explanation given. Yet he utterly scorned the idea that he was deaf.

On the other hand, I remember a deaf gentleman who was ludicrously candid. On being asked what he required he replied, "I want a pair of spectacles; I am very deaf." Whether he found spectacles relieve his deafness he did not say.

Another awkward customer familiar in all shops is the mean man or woman. I have noticed that people of some means are frequently most niggardly. One man on one occasion wanted half a drachm of cocaine in a vial. First he haggled about the price of the cocaine; he could get it for about half the price at some other imaginary "store." When this was settled he strongly objected to being charged for the vial, and wanted to argue the point. At last, however, I thought everything was settled, and handed him his purchase. He then demanded to have the cocaine weighed again before his eyes, and on my refusing to do this he went away, vowed vengeance all round. Another lady customer, who came to the shop in a brougham, when a bottle of medicine was sent to her house, for which one shilling was charged, returned by the messenger 7d. in bronze and five empty medicine-bottles.

Then there are the people who have a craze for a certain drug or remedy, the commonest form of this disease being a crank for some patent medicine. One woman I remember came in regularly about twice a week for a certain well-advertised pill. On my asking her on one occasion as to why she used such a large quantity she grew loquacious, and let forth a flood of eloquence as to the merits of this particular pill. It appeared she took them herself, gave some to her husband, and made the children take them, and also gave one occasionally to the baby. It was no use, she said, anyone trying to convince her that it was a quack remedy—she knew better; the pills had saved her husband's life. To quote her own words, "he had been drinking rather heavily, and was mortal had; and the doctor's stuff was worse than nothing." In desperation she thought of the pills. She gave him three, and a little while afterwards three more, but with no effect. She repeated the doses, until at last he had swallowed twenty-four pills, and then, to use her own words again, "they moved him," and his life was saved.

A well-dressed man came in once and asked for twopenny-worth of laudanum "for the toothache." There was nothing peculiar about him, and he was served with this in a small vial. Before he could be prevented he drank the contents of the bottle. A hansom, in which it appeared he had driven up, was noticed outside, and inquiries from the driver elicited that he had called at other chemists' shops, and presumably had been served with small quantities of laudanum, which he had probably drunk inside the cab. What he had taken at our place evidently acted as a *coup de grace*, for the man began to lose consciousness, and having been served with the poison by us we were in a dilemma. He was taken inside, and a medical man sent for. The stomach-pump was used, and after some time he was pronounced out of danger. We were put to great inconvenience and trouble, but the worst of the affair was we were unable to get anything out of him afterwards for our trouble, and were, moreover, saddled with a doctor's bill. The man was

brutally cynical over the matter, and posed as the injured party, and blamed us for frustrating his attempt upon his life.

Perhaps the saddest class of customers are the slaves of the morphia habit. How the habit was acquired one cannot tell. Often a doctor's prescription is the first step into the abyss of despair, but however it may be brought about a demon is raised within that must at all hazards be appeased. All sense of shame, all strength of will, even any desire for better things is gone, and the one aim of life, the chief end of existence is—morphine. This pure and simple they cannot easily get, but stamped preparations of it are more readily obtainable. One case came particularly under my notice—that of a man in a good position in the City. At first it was a small bottle of a certain patent medicine, then a larger bottle more frequently, and then almost a bottle a day. To stop supplies was futile, for the preparation could readily be purchased anywhere. Ultimately morphine in other forms was procured, and recently I heard that, abandoned by wife and children, intellect gone, and nerves shattered, he had one morning been found dead in bed. The verdict of a coroner's jury was death by overdose of morphine, but whether taken intentionally there was no evidence to show.

#### A WRETCHED DAY.

IT is many a long year ago since I spent probably the most wretched, the most utterly miserable, day of my existence. The few actors in the little drama have passed away, and I alone am left to laugh over the incident which occasioned my misery. It was my first situation after my apprenticeship, and, like all other aspirants to pharmaceutical fame, I was anxious—often too anxious—to serve all and sundry. One morning a neighbouring draper came in to have a draught containing  $\frac{1}{2}$  oz. of decoct. aloes co. conc., with water added to 2 fl. oz. The patient swallowed the medicine, and, requesting me to file the prescription, bade me "Good morning." So far, good. Next day my friend looked in to have the dose repeated—and now comes the event. Without referring to the prescription, and heedless of the consequences, I administered 2 oz. of the concentrated decoction without the water. The overdosed draper made a wry face, and gave me an extremely dubious look. "Was it right?" "Certainly," I said, with that assurance so frequently exhibited by budding apothecaries of about seventeen. "Quite correct, sir, in every particular," I added, yielding, as Dick Swiveller did, to my destiny. "Funny," murmured the patient; "peculiar, very," and took his departure. Then I read the prescription, and consulted the Pharmacopoeia, only to discover that I had given the unfortunate man 35 grains (more or less) of Barbadoes aloes. My mind was filled with horror, and my heart sank to the cellar beneath and seemed to settle, never to come up again, amongst the heavy goods of the establishment. I rigidly kept my own counsel, but on more than one occasion my woebegone countenance nearly betrayed me. I lost my appetite; no tonic could have improved it that day. As a rule I was a hearty eater, and the governor genially chaffed me at dinner, and ventured a guess that I was in love. How my colour rose as he suggested a draught; he only needed to add aloes, and my cup of misery would have been full. In the afternoon I sent the errand-boy to the draper's to purchase a necktie, with the strict injunction that he was to be served by the principal and by no one else. Like most chemists' lads, this youth was by no means a Mercury; the time he was gone seemed interminable. At length he returned, and, in reply to my inquiries, reported the man of calico to be "first rate." I could have fallen on his neck. Oh, how cordially I forgave him for the wholesale smashes in which he used to indulge, and for his little peculiarities of dusting the bottles with their stoppers downwards and wiping his nose with the duster! Later in the day I suddenly bethought me that my hair wanted cutting, and was readily granted permission to have the operation performed. It is hardly necessary to say that I had a good look into the Manchester house, and how elated and delighted I was to see the worthy proprietor serenely serving

his customers. "Not dead yet," thought I. After closing-time I hastened to the town library, knowing that my victim regularly frequented that institution after business hours. "How do you feel?" I inquired, my limbs trembling and my heart beating at high pressure. The answer fairly "floored" me. "I am all right," he said; "but it's strange, that draught to-day caused constipation." I gave a huge sigh of relief. On his hinting his wish to repeat the dose, I urged him with my most persuasive powers not to think of it; I suggested a mild dose of castor oil or a seidlitz powder. So ended an eventful day. That night I slept the sleep of the just, and the following morning my appetite revived. I set about my work with renewed vigour, and the mixing of pills and potions was carried on with much more care and discretion.

J. R. D.

#### SHOP EXPERIENCES.

A BRISTOL correspondent sends us an extensive assortment of written orders, including a few novelties. Among these are "Esseance of Gold Lard," "Pomegranite of potash," and "Aneronne dye," in the handwriting of apparently educated people. One lady makes a very conscientious effort to get it exact. She writes: "Please send 2 pennyworth of Lenative linatine or Linative lenatine." Less cultivated customers send for "lavter water," "simment," "mercular ointment," and "red ruge for clouring skin."

OLD MAN TO CHEMIST: "A 1d. of arsenic, please." Chemist: "Arsenic! I can't let you have it. It's a deadly poison. What do you want it for?" O. M. (confidentially): "Well, when I was at my doctor's, I seed him take a white powder out of a bottle, and he made a lotion for my skin, and as I knowed what it was, I thought I'd get some and make it myself." Chemist handed him ZnO. O. M. (calling a week later): "That powder did me good, just like the doctor's."

OLD LADY: "1d. a pills o' some sort." Shopman: "What are they for?" A. L.: "Well, I'll tell you, mestur. I've been downreft bad this day or two. I were in t'grocer's shop [three doors off] t'other day, an' see you, if my head didn't bump till I thowt it were coming off I'm not here." Shopman: "Aye, that accounts for it. I thowt I heard a big noise t'other day, and could tell what it were." A. L.: "Go on wi' you." The shopman supplied a penn'orth of pills, and the lady died directly after, as he learned from her widower.

VETERINARY COUNTER PRACTICE.—Customer: "Can you give me a dose for my little Polly? She seems a good deal out of sorts, has dry, parched lips, is off her feed, and appears to be generally run down." "Certainly," said the chemist, "I should recommend a tonic." The tonic was consequently agreed upon, and was banded over with the admonition, "Mind she takes it regularly—a tablespoonful at a time." "Oh," said the customer, "It's all very well to talk like that when you are dealing with a human-being—." "But who on earth is it for, then?" asked the chemist; "I thought it was for your wife." "No-o-o-o, man; for my dog!"

TWO women met outside a druggist's shop in Glasgow. One had a cup in her hand, and she told her friend that she was to get a dose of castor oil in it. "Noo," said the friend, "lat me get it for yo. I'm on the parish, and get my medicine here for naething. We'll get a dram wi' the money." To this arrangement the first woman was not averse, and the drouthy friend went in for the oil; but she was horrified when the sly old druggist insisted on her drinking it on the spot. "Your friend outside will, maybe, give you a dram after it," said he with a smile as he watched the agonised face. The dose was swallowed.



## THE NITRATE OF SILVER BUSINESS.

The firm of Johnson, Matthey & Co. (Limited), of Hatton Garden, were not concerned in what may be called the recent circnclatorial disturbance in the nitrate of silver market, but as they are known to be very largely interested in the manufacture of the product, I called upon the house the other day to hear their opinion of the squabbles. Mr. Burnett, who is managing the chemical department of the house, did not, however, want to mix himself up with other people's doings, "But if you want to know anything about our own business in nitrate of silver," said he, "you are welcome to all reasonable information. This is our hook of sales, and these figures at the bottom of the page are the monthly totals"—and Mr. Burnett turned over leaf after leaf, making running comments the while in an undertone. "Forty-five, fifty-six, forty-two, fifty-nine, . . . you see we have a pretty steady trade in nitrate of silver, and our total sales for the year amount to close upon 600,000 oz. Look at the figures yourself. I am sure no other house can show such figures." "Other people have not shown me their sales-book," said I, cautiously, "but your sales certainly surpass my expectation. What do you consider the average annual consumption in this country, and the markets supplied by British exporters?" "I should say a little over 900,000 oz. a year," answered Mr. Burnett, "of which a small proportion is supplied by foreign-made AgNO<sub>3</sub>. The chief use by far is in photography. More likely than not three-fourths of the output is used in that branch of industry alone. The rest mainly goes to chemists for surgical purposes, caustics, and the like. Of course, a big percentage of the photographic supply also falls to the pharmacists' share." "It is needless to ask whether the consumption is on the increase?" "Certainly it is increasing—the greatly reduced price of the preparation, as well as the enormous increase in the number of amateur photographers, are two of the principal causes of the growing consumption." Then Mr. Burnett led the way to a strong room, where nitrate of silver and chloride of gold are kept in stock, the former in splendid white scaly crystals, some of them two or three inches in diameter, chloride of gold packed ready for delivery in hermetically sealed tubes, or in bulbs, a form of packing preferred by some customers, containing 15 grains of the substance, 49·50 per cent. of which are guaranteed to be pure gold. In the adjoining chemical store-room my attention was attracted by a large jar of oxide of uranium in beautiful orange crystals. "That article is now very little used," said Mr. Burnett, "but not long ago there was quite a demand for it. It is used to impart a peculiar greenish colour to glass, and that particular shade was highly fashionable a little while ago. At that time we sometimes shipped as much as 800 lbs. of the stuff at the time to the United States alone."

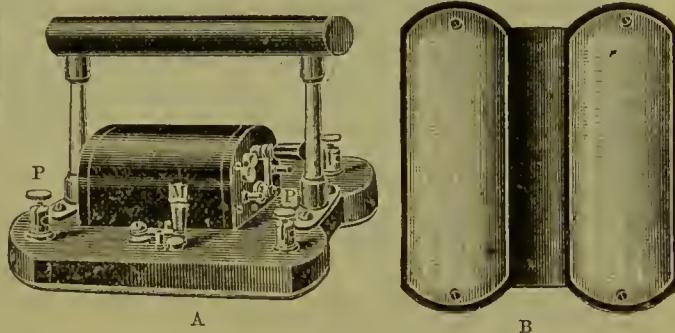
## THE ELECTRO-NEUROTONE.

A few weeks ago we had the opportunity of examining minnately a new system of electro-medical treatment which has been devised by Mr. E. C. Hodgkinson, an Australian electrician, and which, after a cordial reception by Antipodean medical men, has been introduced here through the agency of Messrs. S. Maw, Son & Thompson. We had heard the system so favourably spoken of by competent persons that we thought it worth personal investigation, especially as the instruments used must reach the public through chemists. In our interview with Mr. Hodgkinson we put it to him how the commercial side of his system compares with other methods of electro-medical treatment.

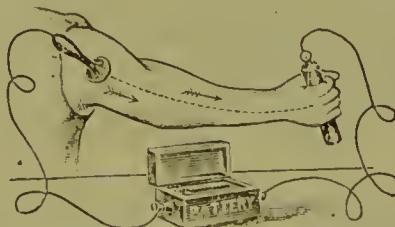
"Well, I shall be straight with you," was his reply. "There

is no Harness business about this. I have the instruments to sell; they are for the use of medical men, or for patients under professional diroctions, and I do not pretend, nor do I intend, to undertake by myself or through agents the treatment of patients. The Electro-Neurotone Company, which owns my patents, manufactures the instruments, and sells them to chemists through Maw. I have given demonstrations, and, with my wife, am attending several patients of Sir — and Dr. — [naming two leading consultants] at the request of these gentlemen in order to instruct the nurses how to use the instruments. This is a matter of pleasure rather than profit, and helps to introduce the electro-neurotone, but it is not in our programme. In fact, I am honour bound to my Australian partner, an M.D., not to adopt Harness methods."

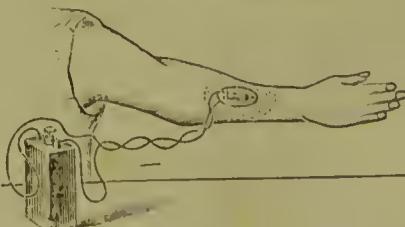
After this explanation we proceeded to examine the instruments; and we shall describe them briefly with the aid of illustrations. Those who desire fuller particulars will find them in the 3s 6d. pamphlet on "The Electro-Neurotone," by Mr. Hodgkinson, or in the price-list which can be obtained from the agents. The essential part of Mr. Hodgkinson's system is the instrument called the electro-neurotone. This



is in several forms, but the one shown above illustrates the principle sufficiently. A is a side view and B a view of the bottom of the instrument. Within the box on the base of the neurotone is a small and very fine induction-coil, designed to give a very high rate of vibration. This coil is connected through the terminals P P', with any suitable battery, such as a dry cell or bichromate cell, when the induced current is communicated to the contact-plates or electrodes forming the bottom of the neurotone. These plates are made of highly polished nickel, inserted upon the ebonite base of the instrument. The current is adjusted by the switch M. Placing the neurotone on the skin we feel at once the electric current, and this can be graduated to any extent either way. How, then, does the principle of the instrument differ from the ordinary method of applying electricity in therapeutics? In the first place, the neurotone localises the current, and, as it were, standardises it. For example, if we wish to treat

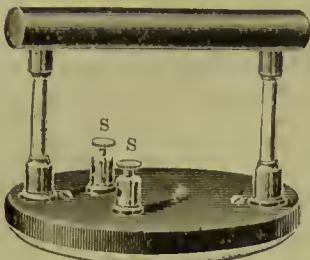


the arm in the ordinary way we must hold our rheophore in the hand, and place the other on the affected spot. Here there is little concentration, and one time we may have the



manual rheophore at the negative pole, and at another time at the positive. With the neurotone the current may be

fixed to he always the same strength, and, obviously, polarity does not vary at all (Mr. Hodgkinson claims that there is none, which we cannot admit), while the



current is confined to, and exerts its influence in, the area upon which the neurotone is placed. This is admirably shown by the above illustrations. By the extension-method the inventor introduces what may be called the "fixed and movable treatment." The terminals ss (which are in contact with the electrodes) are connected by wires with an extension instrument, next shown, which is simply another pair of electrodes suitably mounted. This combination is intended for treating such complaints as sciatica. Keeping the neurotone on the seat of the nerve, the extension instrument is rubbed along the leg, so that we have (1) a definite current at a fixed spot and (2) a continuation of the same current carried along the region of the nerve. This method is always adopted in the treatment of spinal affections. Mr. Hodgkinson also adapts the neurotone to electric massage. All the instruments are elegant productions, being made of ebonite and polished nickel. They admirably fulfil the intention of the inventor—namely, to provide a rational method of electric treatment in a simple instrument which can be used successfully at home and by those who have no knowledge of electricity.

#### REFORMED UNDERCLOTHING.

It is now some years since the "Sanitary Clothing" question was brought prominently under the notice of the public. Since then several learned German doctors have been disputing about the merits of different materials for garments of this kind. One advocates wool, another cotton. The cottonist champion is Dr. Lahmann, who grounds his advocacy of specially prepared cotton fabrics for mankind in general, and patients suffering from various nervous, bronchial and dietetic afflictions in particular, upon its superior purity as compared to animal wool (which can never be perfectly freed from the skin-irritating free acids in the grease), its unshrinkableness, its superior cleanliness in wear, and its cheapness.

Dr. Lahmann, who is the proprietor of a well-known sanatorium near Dresden, has recently established a "Reform Cotton-wool Underclothing Agency," at 15 Fore Street, E.C. I was there shown specimens of his goods, all manufactured of pure Egyptian cotton, the silkiest, longest-stapled variety. The fabric is of a pale yellow colour, no bleaching materials being used, unless specially ordered by the purchaser, and exceedingly soft and elastic in texture. The price averages about one-half of that of woollen garments of the same kind, and the fabric, I was told, will wear much longer.

#### THE SEVEN STAGES OF INK.

The London dépôt of Messrs. BEWLEY & DRAPER, the Dublin ink-manufacturers, has lately been transferred to 10 Warwick Square, Paternoster Row. I looked in there the other day—attracted by the excellent display of the firm's goods in the window—and heard that the demand for all varieties of the Draper's inks keeps steadily increasing. "Draper's Dichroic," still remains the favourite for general writing, but the aptly-named "*Bis et Cito*," is particularly beloved of book-keepers and accountants. A very original handbill has recently been prepared by the firm. It shows a large ink-bottle with a facsimile of the firm's label. On the sides of the large bottle are seven smaller ones, each surmounted by a figure representing one of the "seven stages of ink." The series opens with an infant all besmeared with the contents of the bottle of "dichroic" it has spilt over the table-cloth, next follows the still beardless youngster writing letters to his lady-love, and proving himself one of the firm's best customers in the process; then the hook-keeper, bent

assiduously over his ledger, the officer writing dispatches from camp, the preacher composing that original sermon which flows so easily from the dichroic-charged pen, the judge, and finally a statesman wearing a now vanished style of collar, standing at the House of Commons table on an ink-pot six feet high. The motto is:—

To place thoughts clear, jet-black on written page,  
Dichroic ink is used from youth to age.

What shall the C. & D. man say of Dichroic ink? He can only echo the experience of his predecessor of twenty years ago, who used to write his articles with it at that time, as the present staff do in the current year of grace, and repeat that Draper's Dichroic is the best ink he has come across for fluent, jet-black, and indelible writing.

#### CERESIN WAX AND CARNAUBA.

It is a somewhat singular fact that Carnauba, which is obtained from the leaves of the South American palm, *Copernicia cerifera*, should be almost entirely imported in the raw state into Liverpool, and then sent to Germany to be purified and re-imported into this country for technical use, mainly candle manufacture. That, nevertheless, is the case. Mr. F. PFISTER, of 16 Fore Street, E.C., who is known to many chemists as a dealer in aluminium metal, has lately acquired the agency for a large German wax-blanching factory showed me a specimen of a beautiful bleached carnauba, melting at 71° to 72° C., which he imports into this country. Mr. Pfister is also going to make things a bit lively in the ceresin-wax business, which, so far as this country is concerned, has hitherto been almost a monopoly of one or two Austrian firms. "Natural paraffin," "ozokerite," or "ceresin," are other names for the purified mineral wax which is found in enormous deposits in the Carpathians in the north-eastern part of the Austrian Empire. Mr. Pfister's principals, who own a large factory at Dusseldorf in Germany, contract for the supply of the crude material with the mine-owners and refine it at their own works. The three specimens, "hard," "medium," and "soft," submitted to me are respectively of a melting point of 71°, 66°, and 61° C., and varied in colour from white to bright yellow according to their degree of softness. Mr. Pfister keeps stock in London of all the varieties of ceresin and carnauba, hat he is prepared to make contracts for delivery direct from the works, in large quantities if desired.

#### BOTTLES AND SHOP-ROUNDS

of all sorts and descriptions met my view in the new and well-appointed showrooms of Messrs. Johnsen & Jørgensen, at Botolph House, Eastcheap, E.C., when I called there at the beginning of the week. The showrooms are attached to the spacious offices of the firm, and being in such a central position in the City are well worth a call by chemists and others visiting the Metropolis. Bottles are here, in well-arranged assortment, varying in size from the well-known Winchester to the minute essence-sample bottle; stoppered bottles of all descriptions, magnesia bottles, poison bottles, feeding bottles, perfume bottles, and attractively labelled shop-rounds, pomade pots, blue and white, mineral-water bottles and syphons, and even whisky bottles, the only uninteresting point of the latter being, perhaps, that they are empty. A new label for perfume bottles was shown me, which can be printed at the will of the purchaser in gold and white, or gold and colours. The design is pretty, the work delicate, and it should prove an attraction for counter and window display. Amber-coloured glass goods in different tones are also manufactured by the firm at the same cost as plain goods. The firm have fully completed all their new arrangements, and as they now possess 40,000 square feet of warehouse room at the London Docks (connected with the office by telephone), they are ready for any emergency both in the home trade and for export.

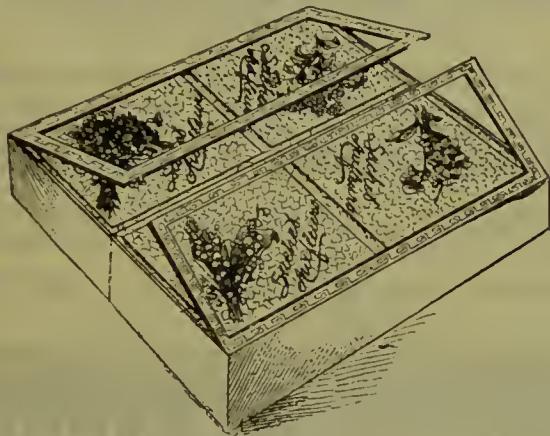
#### UNSWEETENED CONDENSED MILK.

The Viking brand of condensed milk is claimed to be a perfectly pure fresh milk, condensed without the addition of sugar or any other substance by a new process, the invention of Dr. Olsen, a pupil of M. Pasteur. The milk is from cows grazing on the Norwegian Highlands, and the preparation is under strict medical and veterinary supervision in all departments. The milk will keep any length of time in any

climate. When mixed with two or three parts of water it closely resembles fresh milk. And the advantage which is claimed for it is that it is entirely free from the common milk fungus as well as from bacteria. The milk is put up in the usual well-known form in tins by The Norwegian Milk Condensing Company (Limited), of Christiania, and Messrs. Johnsen & Jørgensen are the sole agents for the United Kingdom and the colonies.

#### WARRICK'S NOVELTIES.

Mr. WARRICK sat beaming in his little office at 18 Old Swan Lane when I called there a few days back. The cause of his satisfied mood became plain to me the moment I entered and saw the handsome glass-eased sachet-box on his table. Here was something new in sachets which would probably turn out a good thing. The surmise was correct. "We scarcely make any profit out of this new sachet," said Mr. Warrick. "How could we, at 4s. 3d. a dozen? That is our price to the trade, in delicately-tinted cardboard boxes, with glass lid, holding three dozen each. The box, you will observe, can be folded in two, an advantage on a crowded



counter. 'Aux Flenrs,' I think, is a good name for a sachet. This gold-embossed lettering and these raised flowers cost a deal of money, and you will observe that they are all beautifully hand-coloured. All of British manufacture, too. Nothing vulgar about them. I am just putting them on the market now, and they seem to have hit the mark excellently. I gave an order for 5,000 envelopes to start with, and that lot is as good as sold already."

From sachets the conversation drifted on to other pharmaceutical specialties, and Mr. Warrick mentioned a novelty in that line to which he has given the name of lozengettes. They are of the size and shape of compressed pellets, and are all prepared with sugar as an ingredient. The chlorate-of-potash "lozengettes" answer the B.P. formula; and besides these the firm supply lozengettes of chlorate of potash and borax, chlorate of potash with cocaine, camphor, red gum, and tannin and cayenne, as well as throat, voice, and cough lozengettes. Chemists may get their own materials made up. The "iron jeloids," of which we gave a notice a short time ago, appear to be rapidly growing in favour with the medical profession.

They have been tried in many London and provincial hospitals, and have given the greatest satisfaction. It is now more than four months since the first batch was manufactured, and a recent analysis proved that the proportion of  $\text{FeCO}_3$  in the pills had undergone no change.



#### THE EXPORT OF TINCTURES AND ESSENCES. CONCESSIONS BY THE BOARD OF INLAND REVENUE.

THE following general order, No. 15, 1894, dated June 18, 1894, containing further regulations on the subject of the exportation, on drawback, of tinctures and flavouring-essences, has recently been issued by the Board of Inland Revenue:—

The attention of the Service is directed to the following changes in the existing regulations affecting the exportation of tinctures and flavouring-essences:—

1. Tinctures and flavouring-essences may be exported in bottles or metal canisters, holding any quantity, packed in cases each containing not less than 2 liquid gallons. Essences, however, in bottles not exceeding 4 oz. each, may be packed in 1-gallon cases, but no consignment less than 2 gallons can be exported. The bottles or canisters may be of different sizes, but the number of such sizes that may be packed in a case is not to exceed three. Tinctures and essences may be packed in the same case.

2. Jars, covered with wicker-work, containing not less than two and not more than five gallons, and iron drums holding not less than two and not more than ten gallons, may be exported without being cased, but a wooden tally showing the distinguishing particulars required to be branded, or inscribed on a case, must be affixed securely by wire to the neck of each jar or drum.

3. The exporter must set apart the bottles or canisters intended for each case, grouping each size, so that the officer may conveniently count them and test their contents. When metal canisters are used they must not be finally corked, or otherwise closed, until the officer has fully satisfied himself that the contents correspond with the specification in the notice to pack.

4. The quantity of tincture or of flavouring essence in any bottle or canister, whether to be invoiced by weight or otherwise, is to be ascertained by imperial measure.

The exporter, in his notice to pack, must specify the following particulars against each different size of bottle or canister:—

(a.) The quantity in bulk to the nearest thousandth part of a gallon which each bottle or canister contains. And as to bottles not exceeding four ounces each, the total contents of six such bottles may be declared.

(b.) The total number of bottles of each size.

(c.) The total quantity in bulk gallons and parts of a gallon.

(d.) The alcoholic strength at proof.

(e.) The proof gallons and parts of a gallon.

5. Whenever practicable the officer should check the bulk quantity by the ordinary standard imperial measures provided by the exporter. When the quantity in any bottle or canister does not correspond to the recognised imperial measure, as a gallon, quart (250 gallon), pint (125 gallon), or half-pint (.062 gallon), graduated glass-measures, which will be supplied to supervisors on application to the principal of the laboratory, are to be used, and the quantity checked to the thousandth part of a gallon. The calculations for drawback are to be regulated by the order of February 4, 1893, whether the bottles or canisters be measured singly or in groups of six.

6. When the number of bottles in any consignment does not exceed 100, the officer is to measure 1 in every 25. When it exceeds that limit, then 1 in every 50 after the first 100. When canisters are used the measurement of not less than 1 in 10, and, if jars or drums, not less than 1 in 5, should be checked. A larger proportion of bottles may be measured should the officer from any exceptional circumstances consider it necessary.

7. Spirits of nitre need no longer be sampled in each consignment. This preparation, however, should be frequently sampled, but when of the same strength one sample from any number of consignments, on the same day, and belonging to the same exporter, will be sufficient.

8. The exporter should, as a general rule, enter on separate forms preparations packed in any consignment which carry different rates of allowances for waste, or which are not scheduled as entitled to any such allowance. If more convenient, however, they may, in the case of small consignments, be shown in separate groups on the same form, and in either case the allowance claimed must be stated.

GOLD MEDALS 1884-1885-1886-1888.

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DISINFECTANTS

FRAGRANT—NON-POISONOUS—DO NOT STAIN.  
Kingzett's Sulphur Canoles & Sulphugators,  
Preserved Peroxide of Hydrogen.  
Mercuric Bactericide, Eucalyptus Oils.  
Price Lists and Pamphlets Free.

THE SANITAS CO., LTD., Bethnal Green, LONDON, E.

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TABLE  
WATERS

"Absolutely Pure."—  
A. URE, M.D., F.R.S.,  
L. THOMPSON, M.R.S.  
Analytical Chemists.

"The water is of first-class organic purity, and the quality of the gas is excellent."—J. ALFRED WANKLYN,  
M.R.O.S., Prof. of Chem.

SOLE ADDRESS— [2]  
R. ELLIS & SON, RUTHIN, NORTH WALES.  
London Agents: W. BEST & SONS, Henrietta Street, Cavendish Square

See also Insert in this issue.

*What's good for  
BODILY PAIN?*  
[1] **DAY'S OIL OF THE NIGHT**

ABSOLUTELY PURE ESSENTIAL OILS.

**A. M. TODD'S** CRYSTAL WHITE,  
DOUBLE REFINED  
PEPPERMINT, SPEARMINT, TANSY, &c.

Please see Advertisement, page 196, for particulars.

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**SEIDLITZ** HAND WEIGHED  
HOWARD'S SEIDLITZ  
ENGLISH ACID  
5 gross, 4/3 per gross.  
Special Terms quantity.

**4/6 POWDERS**  
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HORA & CO., 47 Minories, LONDON.

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CHEMISTS STOCKING  
CULLWICK'S SKIN OINTMENT  
AND  
BLOOD TABLETS

May have their Names added to Advertisements appearing, or new ones inserted, for Twelve Months (where Agents are not appointed). All London Patent Medicine Houses keep these Preparations.

SOLE PROPRIETOR—  
**MARTIN. CHEMIST, SOUTHAMPTON.**

IMPORTANT TO CHEMISTS.  
**NOVEL "COUNTER ADJUNCT"**  
FOR AUGUST.

See pages 108 and 150.  
EVANS, LESCHER & WEBB, LONDON. | EVANS, SONS & CO., LIVERPOOL.

*Savarese's Sandal Wood Oil Capsules are now in White Enamelled Metal Boxes*

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in PARIS (founded 1808)  
**BOISSY late GALLOIS**  
2, Place Vendôme, Corner of rue St-Honoré  
would undertake one or two additional  
agencies for patent Medicines, Sundries, etc.  
Special connexion amongst Doctors  
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EVERY DESCRIPTION OF  
Galvanic, Faradaic, and Electro-Magnetic  
Machines and Electrodes, Galvano-Cauter,  
and Lighting Instruments.  
Lists Free. Descriptive Catalogue, 100 Illustrations,  
32 pages, 4 stamps.

GENT &amp; CO., LEICESTER.

British Medical Journal.

"WE HAVE COMPARED TINCTURES, &c., MADE FROM FLETCHER'S CONCENTRATED LIQUORS WITH SIMILAR PREPARATIONS MADE EXACTLY ACCORDING TO THE B. P. METHODS, AND WE FIND THAT THEY ARE PRACTICALLY IDENTICAL IN CHARACTER."

## Editorial Comments.

## THE MODERN CHEMIST AND DRUGGIST.

It is a commonly received opinion that the chemist and druggist of the beginning of the century was a lucky and a happy sort of party. We are not at all concerned to destroy this theory, still less would we essay the ungraceful task of establishing that our late friend's happiness was a mere

delusion of his. The few records of his career which have come down to us go some way towards justifying his satisfaction with himself and his surroundings a hundred years ago. He was in the early stage of his evolution. He was rapidly usurping the position of his time-honoured predecessor the apothecary, and was consequently experiencing some of the exultation of the successful invader. He got tremendous prices for his physic, and nobody doubted the duty of taking as much as he could afford. There was no doubt a certain degree of rivalry among the druggists of each neighbourhood; but the cut-throat opposition of the present day was never dreamed of. It would not have succeeded if it had been attempted, for every respectable representative of the nobility, clergy, gentry, and inhabitants of the vicinity would have boycotted the unholy innovator. Moreover, there was a fixed respect for goodwill and vested interests, and with this an unshakeable faith in the genuineness of the "art and mystery" imparted to the duly-bound apprentice in the course of his seven years' service. Curiously enough, the tendency of every second tradesman in the street to appropriate some part or the whole of the business of pharmacy had not been conceived. The drug-department of a drapery-store would have been not merely incongruous, it would have approached criminality. Ought not a man who took an interest in his business to have been happy in those days?

We cannot assert that the pharmacist of our end of the century is a truly happy man, even though he has this "Summer Issue" before him to cheer him. Indeed, we have witty critics who will include the absence of journalistic enterprise as among the sources of the happiness of our ancestors. We are rather inclined to admit ourselves that trade journals are responsible for the grievance-mongers, on the principle that it is the opportunity which makes the thief. Whether the ventilation of griefs in print, or the limitation of them to oneself and wife is the happier course for the sufferer, it is not for us to say. However this may be, there are surely many respects in which the business of a chemist and druggist is more interesting than it was one, two, or three generations ago. Its immense variety is one feature which cannot be overlooked. This is suggested to us by an examination of some of the sheets of advertisements which are associated with this number. We do not believe any trade can show such a wide and, at the same time, such an attractive variety of materials as those offered in these pages. Take a glance through them and mentally compare them with the articles which could have been advertised to chemists and druggists, say, fifty years ago. There are scarcely a score of pages of the present issue which could have been comprehended by the chemists of that period. To the chemist of a hundred years ago, there is scarcely an article named which would have been familiar. There are perhaps a few old firms whose names might be known to him, but even these are dealing in products he never imagined. What means all this array of fantastic forms of medicine, he might ask—tabloids, capsules, granular effervescent preparations, coated pills, and strangely-named mixtures? If we could send him a copy of this issue, and he were allowed to look it through, he would no doubt drop into a homily on factory-made preparations, and would wonder how we employ our apprentices nowadays, if there were no pills to make, no powders to prepare, no quicksilver to kill. He would see with amazement that the fantastic physic suggested by that German crank, Hahnemann, was a regular feature of the chemist's business; he would wonder what the photographic apparatus was for; the fly-papers, the filters, the feeding-bottles, the soaps, the disinfectants, the weed-killers, the wines, the foods, the cocoas, the teas, the spectacles,

the check-tills, the formulæ, and the schools of pharmacy would bewilder him. The paints and varnishes, the wines and lozenges, the cigars and tobacco, and here and there the name of an ancient drug might cheer him a little, but it is pretty certain that, with the scent of the morning air, he would not unwillingly go back to his shades, thankful that his lot was cast in a period when the good old salts-and-senna draught was the highest type of pharmacy.

If our good old friend could stay long enough to visit Oxford with us next week we could introduce him to a few congenial souls at the Conference who would heartily sympathise with him. We should be sorry to tread on his and their pet corns, but it is our business to recognise that evolution and revolution have played the mischief with the trade of the chemist and druggist as it used to be. Thyroid extracts, and all the race of new remedies, may be a great nuisance to the old-fashioned pharmacist, but these are the things that the medical men and the public of the present day demand, and clients will go to the man who will supply them with what they want. The half-dozen ninepenny draughts of the days of old are gone, and no amount of sighing will bring them back. Customers prefer perfectly-finished mechanically-made medicines to the products of the back shop, even though these were manufactured "under the supervision of the principal." The truth is pharmacy is a healthy growing business. The vast increase in the volume of its transactions may be gauged by the size and development of the wholesale houses which supply the trade in London and the provinces. We should be within the mark if we said that these have increased either in number or size tenfold within the last half-century—that is, at a vastly faster ratio than the population or the ranks of pharmacists. Somebody distributes their goods. Who is it?

#### "UNIVERSAL" EXHIBITIONS.

AN "International Exhibition," may be defined as a collection of natural and manufactured products sufficiently large and varied to enable an intelligent visitor to form a clear opinion of the general industrial condition of the nations participating in the contest, of the kind of goods in the manufacture of which each particularly excels, and of the relative advancement attained by each separate country within a comparable space of time. Judged by this standard not one single exhibition of recent times can be said to have fulfilled its object. Apart from the circumstance that the country in which the Exhibition is held always has an undue advantage over other nations in the matter of the number and variety of its exhibits, it becomes increasingly difficult to find a neutral ground in a sufficiently central and commanding position where manufacturers of all nations are able to measure their capacities on equal terms. The Paris Exhibition of 1889, though marvellously successful, was practically boycotted by the most strongly monarchical nations of Europe on account of the principles it was supposed to celebrate. In addition to that it took place at the very time when France was raising her customs duties all round, and laying the foundations for the tariff-wars that have so greatly dislocated European trade during the past five years. The Chicago Exposition suffered from some of the same disadvantages that marred the success of its predecessor. "Why go to the trouble and expense of showing our goods in a country where McKinleyism is the first principle of the commercial creed?" argued thousands of manufacturers, and thus again whole branches of international industrial activity remained unrepresented. The "Universal Exhibition" now in progress at Antwerp, about which we print our special representative's second article

in this issue, is injuriously affected by the general surfeit of such shows in the manufacturing world, by the idea, largely prevalent among those who have not yet lost their faith in the profitableness of Exhibitions, that they can only be held successfully in cities of at least a million inhabitants, and by the closeness with which it follows upon the heels of the Chicago World's Fair.

The last-named circumstance was probably considered an advantage by the projectors of the exhibition. The Chicago Fair has been made the excuse for a rich crop of junior exhibitions all over the world. In many of the British Colonies the exhibits, before being sent off to Chicago, were placed on view for the delectation of the citizens of the locality, and when the Chicago Fair lay *in articulo mortis*—dirty, dishevelled and uscd up—a portion of its vitals was torn off by the Californians, eager for a supplementary Fair in their own 'Frisco. Dozens of the Europe-returning exhibits have drifted into the Belgian net on their way home-wards, and these make up an appreciable percentage of the contents of the foreign courts. We have no particular fault to find with this, but it stands to reason that when the commercial visitor who frequents exhibitions for business purposes is continually confronted with the identical array of silent showcases which he has beheld full many a time before in London, Paris, and elsewhere, at International and other exhibitions, he loses his faith in the utility of such shew.

Moreover, the Exhibition-promoters, by bestowing ever-increasing attention upon the spectacular portion of their shows, as distinct from their industrial and educational value, have raised a Genius which is fast enslaving them. People who really want to visit exhibitions for the sake of acquiring information, or who send their goods there as bread cast upon the waters of the mercantile ocean, are more and more beginning to forsake the international and general exhibitions, half-variety entertainments, partly bazaars, and only microscopically industrial, that have of late become the rule, and are turning their faces in the direction of the highly technical, unfantastic, but severely businesslike exhibitions that are growing up in connection with special annual gatherings of associations, congresses, and the like. This is as it should be. Since 1851, the year of the first real international exhibition, commerce and industry have assumed dimensions which render it impossible to obtain anything but a ludicrously incomplete gathering of their products at one time within a narrow area. France promises us another great world's fair in 1900. He would be a bold prophet who would venture to forecast whether that show will take place. At any rate, it is likely to close the era of international exhibitions, and no one who has watched their growing degeneration will regret the fact.

It is curious, at the present time, to look back upon the arguments brought forward against international exhibitions forty-three years ago. In many business circles the May-day of 1851, when the first international exhibition was opened in London, was looked forward to with trepidation as the turning-point of Britain's fate. "It was thought," said a contemporary writer, when all was over, "that London would be planted with many varieties of new disease. Unmanageable crowds were pictured assembling in the chief thoroughfares to make the exhibition a stalking-horse for riot and plunder. Wild fears produced over-caution in the laying-out of plans, and the police and army were concentrated as if for an internal war. But when the statistics of 1851 came to be gathered together, it was found that there had been less crime, less disorder, and fewer accidents than the annual average."

It is impossible to draw a dividing line between the ancient fair and the modern exhibition, but it is now well established that the first national exhibition, as distinguished from a periodical concourse of buyers and sellers in a fixed locality, took place in 1756 under the auspices of the then recently established Society of Arts. This exhibition grew out of the offer by the Society of prizes for improvements in the manufacture of carpets, tapestry and porcelain, and the objects that had been awarded prizes were exhibited in one of its rooms. In 1761 the Society held an exhibition of agricultural and other machinery, and "a gentleman was paid to attend the same and explain the models exhibited." We have no record of the observations of the harmless, necessary journalistic drudge who, presumably, reported this show. France came second in the matter of exhibitions, the first in that country being held in 1798. It lasted for three days, and there were 110 exhibitors, the articles shown being of "an aristocratic (*sic!*) and costly, rather than a popular character."

And thus, by easy stages, we have degenerated (some would call it advanced) from the select exhibitions of the eighteenth century to the caravanserais of to-day. The monstrous overgrowths and Gargantuan medal distributions of recent years are no doubt but a passing phase, and by degrees we shall return, in the spiral progress of all things, to the old idea of smaller and highly specialised shows, and these may even outlast the era of commercial competition itself.

#### THE PURITY OF PHENACETIN.

COMPLAINTS on the part of medical men with reference to the untoward effects of this substance have been of frequent occurrence—so much so as to threaten its retention as a remedial agent. That it is a valuable remedy in many cases is without doubt, and the deleterious effects attending its use are in all probability due, not to the substance itself, but to impurities or adulterants present in it. Examination of numerous samples on the market largely confirms this view. Rarely is a sample found that will answer the Pharmacopœia test—namely, that on boiling with solution of potash and a drop or two of chloroform, no unpleasant odour should be produced. Most samples give a more or less strong odour of phenyl-iso-nitrile, pointing to the presence of some impurity. Acetanilide is a substance which has been largely used to adulterate phenacetin, and this adulteration is by no means at an end yet. Fortunately its detection is easy. It lowers the melting-point considerably, phenacetin, if pure, melting at 132·5° C., and acetanilide at 114° C., and may be separated by taking advantage of its more ready solubility in chloroform. It is questionable whether acetanilide, when found, is always an adulterant, or whether it is not present as a result of careless manufacture. Another impurity often present in phenacetin is uncouverted phenetidin, an impurity of an objectional character and not very easy to detect. The test usually given for its detection is that of Reuter, which consists in fusing gently with chloral hydrate, when a violet colour is said to be produced. Professor Schmidt has shown this test to be almost valueless, and has pointed out a much better and more reliable one. It is applied thus:—Dissolve .5 gramme of the sample in water, add a few drops of ferric-chloride solution, and warm gently, when a dark-red colour is produced if phenetidin is present. The same impurities are liable to be found in the two newer products, phenocoll and salocoll, and may be detected in a similar manner. In the case of salocoll the salicylic acid must be first removed by the addition of a

dilute acid. Phenacetin may also be used to mix with phenoecol, but is at once detected by its insolubility in water.

#### VETERINARY CLAIMS.

THE coolness of the Royal College of Veterinary Surgeons in continuing to prosecute persons who use the description "veterinary forge" is less surprising than the imperfection of the defence offered in these cases. A man in North London described his place as a "veterinary shoeing-forge and infirmary for horses." He was summoned by the College, and their solicitor quoted before the Magistrate the decision given by Justices Hawkins and Wills in the Robinson case, finding the description of a shoeing-smithy as a veterinary forge to be an infringement of the Veterinary Surgeons Act. We are not much surprised that the prosecuting attorney should avoid mention of the subsequent case of the College v. Grove in which Justices Day and Lawrence dismissed with ridicule the claim of the prosecutors that the description "veterinary chemist" was an infringement of the Act. In an ideal world the attorney would feel bound to bring such a cogent fact under the notice of the Magistrate. Perhaps in this case he was as much surprised as we are that the defending solicitor never alluded to it. For if the facts had been fully stated it is hardly likely that the Magistrate would have convicted the defendant so readily. Here is a Queen's Bench Divisional Court declaring that the use of the description "veterinary forge" implies that the person using it claims special qualification; subsequently another Divisional Court, whose authority is equal with the other, and whose judgment, coming later and with full knowledge of the previous decision, must carry special weight, finds that the description "veterinary chemist" implies nothing of the kind. It is hardly conceivable that any magistrate would consider that "veterinary forge" implies special qualifications more than "veterinary chemist." If anything, the latter is the more imposing title of the two. But if anybody does hold that opinion, we may refer him for its refutation to the argument of Mr. Poland, who before the High Court insisted that the cases were parallel.

#### BEECH AND LINDEN OILS.

WE quoted last week from the *Kew Bulletin* a report on the production of table-oils from beech and linden. The note seems to have been inspired by a report of the United States Consul at Stuttgart, published at the end of last year, in which he says that on account of the expense and difficulty in procuring pure olive oil, many attempts have been made in Germany to obtain a sweet and pure oil from other sources than the olive. In Southern Germany for some years past oil has been produced from the beech-nut, and though it has given great satisfaction it has never come into general use, because the production has been small and the oil not pushed on the market; besides which the supply of beech-nuts has, in some years, been very limited. The nut is said to contain 22.77 per cent. of oil. It is pointed out that one of the advantages of beech-nuts is the ease with which they can be gathered, and, further, that there is no other expense attached to their working besides the pressing.

Linden oil would seem to be a more recent introduction and in our foreign news of last week we referred in detail to the experiments in the manufacture of linden-seed oil which have lately been made in Germany by Dr. C. Müller, according to which the linden-seed oil has many advantages over

beech-nut oil, and its preparation is more likely to become commercially profitable because of the greater abundance and regularity of supply of the raw material.

Little has hitherto been known about oil from *Tilia europea*, and we cannot but suspect that Dr. Müller's account is somewhat highly coloured, and that it will be some time before we are enabled to classify the lime-tree amongst oil-producing plants. We have also our doubts as to the future of beech oil as a substitute for olive, though we learn from the *Kew Bulletin* that there is a sample of beech oil in the Kew Museum which has been there since 1854, and that it "is of a bright yellow colour, very closely resembling the finest olive oil." It is true that beech oil has been used on the Continent for many domestic purposes, and has been stated to equal olive oil in flavour and delicacy. So long ago as 1714 a patent was obtained by one Aaron Hill for the manufacture of beech oil, which was to be carried on by a company, and by which, according to the calculations of the projector, large fortunes were to be realised, but the scheme proved a failure. The oil was then used, and may be still, by the inhabitants of Silesia, as a substitute for butter; and it is further recorded that it was prepared in large quantities in the forest of Compiègne in France, but in those days little or nothing was known of such oil-seeds as ground-nut (*Arachis hypogaea*), sesame (*Sesamum indicum*), cotton-seed, and a host of others that are now crushed by thousands of tons annually.

In proof of this we need but refer to a consular report on the trade at Marseilles for the past year, where it is stated that the quantity of ground-nut kernels imported and crushed was 96,388 tons decorticated kernels, and 36,289 tons undecorticated kernels; while of sesame-seed as much as 108,000 tons were imported during the same period, and of cotton-seed 20,700 tons. The bulk of the oil produced from these imports is of a very refined quality, and is chiefly used for mixing with the stronger olive oils to produce a milder and sweeter taste. The oil produced in Marseilles is said to be bought chiefly by the town of Salon, which is the centre of the olive-oil trade.

Even cotton-seed oil appears to have seen its best days and to be gradually elbowed out by the competition of the cheaper produce of the arachis and the gingelly-seed. At any rate, the prospects that a profitable new industry could be created by pressing the comparatively small quantities of beech and linden oils produced in Europe in competition with the enormous crops of Indian, American and African oil-seeds shows a truly professorial want of commercial knowledge.

#### AN ANTI-QUACKERY CRUSADE.

MR. ERNEST HART, who is apparently anxious to emulate Mr. Stead and Mr. Labouchere in his journalistic capacity, has set out on a new crusade against a very old grievance. He is inviting the branches of the British Medical Association to report to him, as chairman of the Parliamentary Committee of the Association, particulars of the quacks who flourish in their respective districts. He desires to tabulate this information and use it for getting new statutory powers to deal with the evil. In his opinion the Legislature is in utter ignorance of its magnitude. Mr. Hart, perhaps, underrates the knowledge possessed by the powers that be. There are three categories in which alleged quacks may be classed. There are, first, those scoundrels who batte on the fears of ignorant and timid people, and whom we should all like to see exterminated. These are the only ones the Legislature is likely to deal with, and that only if a practicable means of accomplishing useful work can be suggested.

There are next the persons who are regarded as quacks by the medical profession, but who do not appear in that light to more unbiased observers; and lastly, there are not a few whom the public believe to be quacks, but who are held in particular reverence by the faculty. Of all people the members of the British Medical Association are the most unqualified to be entrusted with a commission to investigate quackery. We may assure them in advance that their tables and their records will be scrutinised with a friendly suspicion, and will not be likely to bring to pass that condition of medical law which they regard as the ideal one.

#### UNREGISTERED TRADE-MARKS.

THE carefully-considered judgment of Mr. Justice Stirling, in the action brought by Messrs. Goodall, Backhouse & Co. against the Birmingham Vinegar-brewery Company, brings out perhaps more clearly than has been shown hitherto the essential uselessness of the Trade-marks Act. Before the existence of that statute the plaintiffs in this action would have applied for an injunction, just as they have done now, to protect the rights they claim in the title of their sauce, "Yorkshire Relish." But under the Act the proceedings have been enormously complicated. For certain forcible reasons, titles with a geographical signification cannot be registered as new trade-marks. Messrs. Goodall, Backhouse & Co., some time ago, thought they had got this title securely registered as an old trade-mark. That turned out not to be the case, and as the result of an action the title was struck off the register. The Birmingham Vinegar-brewery Company, not quite unnaturally, assumed that this was equivalent to saying that the title was open to anybody to use, and they accordingly began to use it. But the resources of litigation were not exhausted, and the action now reviewed followed. It is not concluded yet, so we do not in any way discuss its merits; but we call attention to the terms in which Mr. Justice Stirling granted the interim injunction, because these deal with points which are often raised by correspondents in reference to trade titles generally. The Judge said in effect that the title is common property, but that, all the same, it is exceedingly risky to use it because, unless you take absolutely sufficient means to prevent the public from being deceived, you are liable to have an injunction granted against you with the privilege of paying for it. And he significantly added that he did not consider it was the business of the Court to inform the defendants what were the means they could take to so protect the public.

#### MEDICINE V. PHARMACY IN CAPE COLONY.

THE pharmacists and the Medical Council of Cape Colony have for some time been at loggerheads, owing to the efforts of the first-named body to set aside the provisions of the Pharmacy Act of 1891, which put a stop to the trading as chemists and druggists of medical practitioners in the colony, and restricted the practical interference of these gentlemen with the art and mystery of pharmacy to the dispensing of their own prescriptions, for which right they had to take out a licence of the same kind as that required from any ordinary pharmacist. But the medical profession—at least, that section of it represented by the Council—kept hankering after its lost prerogatives, and an agitation was set on foot to repeal the prohibitory clause of the 1891 Act and restore to the medical man the right of retailing feeding-bottles, patent medicines, oils and paints, and the thousand-and-one other "notions" that come within the ken of the country chemist. The pharmacists met the

medical wire-pullers by a counter-crusade in favour of the total abolition of dispensing by medical men, and they had the best of it so far as meetings and enthusiasm went. Deputations waited upon members of the Government; the Pharmacy Board on the one hand, and the Medical Council on the other, plied the authorities with memorials and representations. Here, however, the medical profession enjoyed a rather unfair advantage, inasmuch as their own Council consists exclusively of members of the medical profession, and could therefore act with unanimity and without fear that their plans would be divulged to the enemy; whereas the pharmacists have upon their Board, as an *ex-officio* member, a medical man appointed by Government, who did not fail to act persistently in the interests of his profession.

But in Cape Colony, as at home, government consists largely in more or less skilful exercise of the art of compromising, and in due time the Ministry announced that they had found a way out of the *impasse* which would no doubt prove acceptable to moderate men of both parties. The Government proposal came up for discussion in the colonial House of Commons at Cape Town on June 27, during the debate on the Licences and Stamps Bill. Mr. Juta, the Minister in charge of that measure, proposed the adoption of a clause to the effect that

"any medical practitioner admitted to practise under the Medical and Pharmacy Act, 1891, shall be entitled under such licence to carry on the business of a chemist and druggist in any village or town in which there shall be no licensed chemist and druggist."

There are no fewer than seven medical men among the seventy-six members of the Cape Colony House of Commons, but not a single pharmacist. Yet, strange to say, with one single exception, all these medical legislators took the side of the pharmacist against their own Council, and after a debate in which four of them took an active part, the clause was unanimously agreed to. Of the four practitioners who spoke on the measure, one—Dr. Berry—distinctly disclaimed the right of medical men to practise as pharmacists. Shopkeeping, he said, was derogatory to the dignity of the medical profession, and if a medical man dispensed his own medicines he should be compelled to employ a qualified pharmaceutical assistant for that purpose. Dr. Smartt, another member, pointed out that the members of the College of Physicians had to take an oath not to trade in drugs or medicines, and generally agreed with his colleague. The only medical advocate of the right of his professional brethren to sell what they pleased, and to dispense without hindrance, was a Dutch member.

Cape Colony pharmacists have reason to be satisfied with the decision of the Assembly, which affords them protection not enjoyed by chemists in this country. In a country with such a scattered population as Cape Colony there are many places (the Minister in charge of the Bill estimated the number at sixty) where there is no pharmacist within hail, and where it would not be worth anyone's while to start a chemist's shop. It is obviously reasonable that in such cases the public should be able to obtain medicaments from the nearest doctor, though the extent to which the medical men sometimes take advantage of this favoured position was indicated by one of the members who took part in the debate—Mr. Le Roex—who mentioned an instance where a medical man under such circumstances charged 5*l.* "for two small bottles of medicine." It is not surprising that with such precedents he should have suggested the fixing of an official maximum scale of charges for medicine supplied by self-dispensing medical men. As the Act now stands, any medical man who dispenses will have to relinquish that part of his business as soon as the place in which he practises becomes sufficiently populous to induce a qualified pharmacist to open a shop there.

# REVIEWS

*The Sale of Food and Drugs. The Acts of 1875 and 1879, with notes of the reported cases decided since the Acts became law.* By T. C. H. HEDDERWICK, M.A., Barrister-at-law. London: Eyre & Spottiswoode. 5s.

A USEFUL and conveniently arranged digest of the law relating to the adulteration of food and drugs. The construction of the Acts arrived at after numerous decisions is appended after each section, and we do not find that any case which has presented a new interpretation has been omitted. The book is published very opportunely, just when the Acts are being reviewed.

*Das Conserviren- der Nahrungs und Genütsmittel Fabrikation von Fleisch-, Fisch-, Gemüse-, Obst-, &c., Conserven.* Von LOUIS EDGAR ANDÉS. Vienna and Leipzig: A. Hartleben's Verlag. 8vo. Pp. xvi. + 428. Paper covers. 6m. 80pf.

THIS useful manual deals with the preservation of beer, butter and fats, eggs, tobacco goods, fish, flesh, milk, cheese, and many other kinds of provisions, including vegetables. It gives intelligent descriptions of the methods used on the large and small scales, and there is much collateral information—e.g., in regard to the value of different beef extracts—which makes it of value to pharmacists.

*The Pharmacopœia of the Hospital for Diseases of the Throat (Golden Square).* Edited by F. G. HARVEY, F.R.C.S. Ed. 5th Edition. London: J. & A. Churchill. 2s. 6d.

THIS formulary, originally projected by Sir Morell MacKenzie, has become an almost official authority for remedies for the affections indicated by the title. In this edition the tables of weights and measures and other matter common to this and the British Pharmacopœia have been omitted, and the pages are therefore occupied exclusively with the special formulæ for medicines prescribed in the hospital named, and largely outside it. These comprise such out-of-the-way applications as "huginaria" (nasal bougies), "collunaria" (nasal douches), "fumi" (fuming inhalations), "gossypia medicata" (medicated cotton wools), "insufflationes nebulae" (spray inhalations), "pigmenta" and "vapores," besides lozenges, pastilles, gargles, and special mixtures. In large dispensing establishments this Pharmacopœia is an essential. The formulæ have been thoroughly revised.

*Proof Spirit and Fiscal Hydrometry.* By BENJAMIN DERHAM, M.D. Manchester: John Heywood. 3s. 6d.

IN a small hook of 82 pages, Dr. Derham has brought together a mass of material, exposing once more the inaccuracy of the system upon which alcoholic valuations for fiscal purposes are based. The defects of Sykes's hydrometric system are fully recognised by experts, and pretty much the same ground as Dr. Derham now traverses was covered by Mr. J. Scarisbrick in a paper read last year before the London Section of the Society of Chemical Industry. The ambiguity in the authoritative definition of proof spirit is pointed out; the fact that Sykes's tables were, as he himself publicly announced, founded upon the very careful experimental work of Gilpin is demonstrated at some length from the internal evidence of the tables themselves; the magnitude of Sykes's errors and the revenue losses occasioned by these errors are duly noted. The belief that the inaccuracies of Sykes's tables were of a compensating character is shown to be unwarrantable; the losses to the revenue overbalance the gains, because the mean temperature at which bonded spirits are estimated is some nine degrees below 55° F., the latter being the point at which alone is the true strength of a spirit attributable by Sykes. Based upon the returns of 1892-93, each degree of mean temperature below 55° F. inflicts a loss upon the revenue of over 10,000L, which is nearly 5 per cent. of the total revenue derived from spirits. The crucial value of Sykes's system lay in the fact that it

effected the identification of a spirit under all conditions of temperature. Dr. Derham concludes his monograph by describing a "natural hydrometer," which shall furnish actual specific gravities rather than the arbitrary indications of the present instrument. The author recognises that the minimum of alteration is equally important with the maximum of efficiency in a case where so many interests are affected, and in that spirit he discourages the proposal to alter the proof standard.

*Handbuch der Stickstoffhaltigen Ortho-condensationsprodukte.* Von Dr. O. KÜHLING. Berlin: Robert Oppenheim (Gustav Schmidt). Large 8vo. Pp. viii. + 628. Paper covers. 14m.

SPECULATIVE chemists have not yet agreed amongst themselves as to the form in which the benzene nucleus may best be represented, whether by Kekulé's ring, Baeyer's, Armstrong's, or any other having claims to serious attention. At present the Van't Hoff speculations threaten to dominate most conceptions regarding carbon compounds, but above all arguments the mass of experimental achievements which have followed Kekulé's theorisation rises superior. It is scarcely thirty years since Kekulé formulated the benzene ring, and that period almost covers the field of organic synthesis. For that assertion we have magnificent support in this book by Dr. Kühlung, dealing with but one branch of the chemistry of carbon compounds, and yet comprising an enumeration and description of thousands of bodies which have been synthetised, mainly through the aid of Kekulé's theory. The book is one which will interest specialists chiefly, and, although it cannot be considered epoch-making, it has particular value on account of its references to periodical and patent literature in connection with the nitrogenous or alkaloid-like compounds mentioned. After a general and graphic exposition of the constitution, synthesis, and properties of the N group of ortho-condensation products, the author treats in series with those of four, five, and six bond nature. These provide three extensive sections, which are divided according to the characteristics of the products corresponding to the general formulae. Here, again, constitution, synthesis, and properties are a leading feature, and each chapter concludes with a list of substances conforming to the capital type. Most of the artificial dyes are included in the book, and as their origin, preparation, and properties are described, it will be of special interest to those engaged in this industry.

*Leaders of Modern Industry: Biographical Sketches.* By G. BARNETT SMITH. London: W. H. Allen & Co. (Limited). 7s. 6d.

IT was only the other day that one of the leaders of the social forward movement aptly pointed out the extraordinary change in the drift of public opinion involved in the supersession of the works of that inveterate worshipper of the commercial Mammon, Samuel Smiles, and other writers of books of the "Successful Merchant" type by the modern political economists of the Charles Booth and Sidney Webb school of thought. Works like "Self-Help" and "Industrial Biography," which in the Sixties delighted the hearts of a generation nursed in the straitest of Manchester doctrines, no longer charm the modern investigator of economic problems, who prefers to plod through such books as "Life and Labour of the People of London" and the "History of Trade-unionism." In spite of this discouraging fact, Mr. Barnett Smith has not shrunk from sounding the clarion of the great gospel of getting-on in a book of some 500 pages devoted entirely to the rise and industrial feats of nine more or less modern captains of industry and their families—the Stephensons, Charles Knight, the printer and publisher, Sir George Burns, the co-founder of the Cunard steamship line, Sir Josiah Mason, the Wedgewoods, Thomas Brassey, Sir William Siemens, and the Rennies and Fairbairms, of engineering renown. The materials for these biographies—as Mr. Barnett Smith tells us in a prefatory note duly adorned with those venerable flowers of speech, Napoleon's "nation of shopkeepers" and "England's commercial supremacy"—have been gathered from numerous sources, all faithfully acknowledged. Mr. Barnett Smith has evidently given him-

self much trouble to secure accuracy, and he writes pleasantly and straightforwardly enough, though occasionally we are treated to whiffs from the censor of praise which almost choke us. It seems rather a pity that the time and care expended upon, say, such worthies as the Stephensons, of whom no chronicler can conceivably tell us anything not already written before, has not been devoted to pioneers of more recent industrial movements; and we would advise Mr. Smith, if he should continue the series, to turn his attention towards such personalities as those of John Elliott Howard, William Allen, or Ludwig Mond in the pharmaceutical and chemical trades, or to apply himself to giving an account of the rise of that great industry with which the names of Cadbury, Epps, and Fry are indissolubly linked.

*Materia Medica, Pharmacology and Therapeutics: Inorganic Substances.* By C. D. F. PHILLIPS, M.D., F.R.S. (Edin.). London: J. & A. Churchill. 21s.

THIS book is the second edition of the work written by Dr. Phillips, and published first in 1882. It is a companion work to that on organic *materia medica* by the same writer, a new edition of which is shortly to appear. Dr. Phillips was formerly lecturer on *materia medica* and therapeutics at the Westminster Hospital Medical School, and though his work is written primarily for medical practitioners and students, there is much in it that is of value to the pharmacist. No alteration has been made in the style or arrangement of the work, though it would have been an advantage in many ways to have the information classified under the head of diseases rather than of remedies. This, however, is somewhat counterbalanced by an excellent index of both subjects. Comparatively few new substances have been introduced into this part, the most important being hydrogen sulphide, iodine compounds of recent introduction, and platinum. Why platinum, a metal which is never prescribed in any form, should be given three-quarters of a page, and salts of strontium, which have been somewhat freely used lately, should be only casually mentioned under the various acids, is not easy to understand. While the most careful attention has evidently been paid to the therapeutic part of the work, with a view to bring it up to date in all respects, it is a pity that the chemical and pharmaceutical portion should have been somewhat neglected. The chemical part in particular might have been revised with advantage. Many of the processes of manufacture are out of date, and the details of others are carelessly written, and, in some instances, inaccurate. Thus, potassium chromate is not usually made from chrome-iron ore, potassium carbonate, and chalk; the processes given for the preparation of phosphorus and phosphoric acid are quite obsolete; and the explanation of the changes which take place in the manufacture of sulphuric acid are inaccurate, and no attempt is made to introduce the latest and most accurate work on the subject. Still, apart from these blemishes, the work is a valuable one, and pharmacists should find it useful for reference, the list of incompatibles which is appended to each remedy being especially good. The chapter on water and its uses, natural mineral waters, and medicated baths is full of useful and practical information, and should commend itself especially to pharmacists at watering-places. While much has been added to the detail of Dr. Phillips's work, the book has been reduced in size owing to the use of slightly smaller type—not, however, too small for easy reading. The book is remarkably free from typographical errors.

*Select Methods in Chemical Analysis.* By WILLIAM CROOKES, F.R.S. 3rd edition. Longmans, Green & Co. Price 24s. net.

THE demand for this work has caused the publication of a third edition. The new volume, which is considerably altered and enlarged, is in every way worthy of the high repute of the author. The work is not an ordinary analytical text-book, but rather a selection of processes not generally known, or of recent introduction, or which are not required for everyday work. In the preface to the first edition Professor Crookes says that his intention is not to provide the student with a complete text-book of analysis, but rather with a laboratory companion containing information not usually

found in ordinary works on analysis. In the new edition this aim is admirably maintained; processes which are well-known and in common use are excluded, while novel or little known methods are included not merely on published recommendation, but after examination in the author's own laboratory. No better guarantee for their trustworthiness could be required. Attention is paid also to the rare elements, and methods for their detection and estimation are fully given—a subject which in most text-books on analysis is tacitly ignored. This feature alone should render the book useful for reference and research. The principal additions, however, are in the comparatively new department of electrolytic chemistry. The processes and details here are chiefly from the standard work of Dr. Classen on "Quantitative Chemical Analysis by Electrolysis," supplemented by the work of Professor Crookes himself. These processes are rapidly coming into more frequent use, and the author has done wisely in including them in so much detail and in so practical a manner. The attention paid by the author to small details greatly enhances the value of the book; small difficulties which usually only crop up when the worker is in *medias res* are noted and explained, and valuable hints constantly given to avoid error. The page devoted to the preservation of platinum vessels is not the least valuable paragraph in the book, and the simple and ingenious method of mending platinum dishes given on page 453 should be useful to all analysts as calculated to save considerable expense. The method depends on the "weldable" property of platinum, and consists in welding a piece of foil over the damaged spot, the dish being kept hot by a blowpipe, and supported in a mould of plaster of Paris. The last chapter, on the adjustment of chemical weights, is interesting and valuable as giving the student an insight into the extreme care and attention to detail necessary in delicate chemical manipulations. The work concludes with a series of tables, which are useful in everyday work to save time and troublesome detail. As might be expected from the high reputation of the author, the work bears on every page the stamp of thoroughness.

## New Books.

THE following new books of interest to readers of THE CHEMIST AND DRUGGIST have been published recently. Mention of a publication in this list does not preclude a subsequent review of any book.

Brestowski, A. *Handwörterbuch der Pharmacie.* Praktisches Handbuch für Apotheker, Aerzte, Medicinalbeamte und Drogisten. (Parts 15 and 16, Mineralwasser—Pasta.) Paper covers. Large 8vo. 2.40m. per part (Wilhelm Braumüller, Vienna and Leipzig.)

Cowan, T. W. *British Beekeeper's Guide-book.* 13th edition. 12mo. Pp. 180. 2s. 6d.; sewed, 1s. 6d. (Houlston.)

Crookes, W. *Select Methods in Chemical Analysis (chiefly Inorganic)* 3rd edit. 8vo. 24s. net. (Longmans.)

Dowse, T. S. *On Brain and Nerve Exhaustion (Neurasthenia), and on the Nervous Sequela of Influenza.* Fourth edition. 8vo. Pp. 136. 2s. 6d. (Baillière.)

Dünninger, Dr. C. *Chemische Reaktion und Reactionen.* Ein Hilfs- und Nachschlagebuch für Apotheker und Chemiker. Stiff-papercover. 1.30m. (Orell Füssli, Zürich.)

Fenning, D. *Polishes and Stains for Woods: How to Use and Prepare them.* Post 8vo. Pp. 70. 1s. (L. U. Gill.)

Granville, M. *Notes and Conjectures on Gout and Certain Allied Diseases with the Rôle of the Leucocyt in their Causation.* Crown 8vo, sewed. 1s. net. (Baillière.)

Hamilton, A. McLaue, and others. *A System of Legal Medicine.* Illustrated. 2 vols. 8vo. (New York) London. 50s. net. (Sampson Low.)

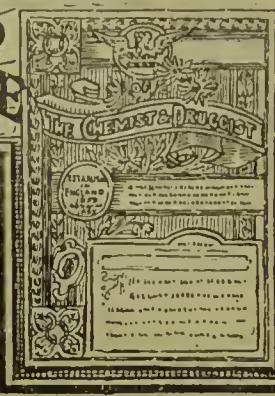
Harvey, F. G., F.R.C.S. (Editor). *The Pharmacopæia of the Hospital for Diseases of the Throat (Golden Square).* 5th edition. Small 8vo. Cloth cover. Pp. 112. 2s. 6d. (Churchill.)

Hedderwick, T. O. H. *The Sale of Food and Drugs Acts, 1875 and 1879; with Notes of the Reported Cases.* 8vo. Cloth. Pp. xii. and 101. 5s. (Eyre & Spottiswoode.)

Jean, J. S. *Conciliation and Arbitration in Labour Disputes: An Historical Sketch and Brief Statement of the Present Position of the Question at Home and Abroad.* Post 8vo. Pp. 210. 2s. 6d. (Lockwood.)

Kerry, N. *Inebriety or Narcomania: its Etiology, Pathology, &c.* 3rd edit. 8vo. 21s. (Lewis.)

Moon, G. P. *How to Make a Hand-camera for Three Shillings, and how to Use it.* 18mo. Pp. 60. 3d. (Henderson.)



on behalf of enterprising firms connected with the trade. We say "enterprising" advisedly, for there is not one of these circulars and price-lists which has not been specially printed for this occasion, and we consider it a compliment to our subscribers that these firms should take the trouble to appeal to them for business in this exceptional manner—a compliment to them in respect of the fact that over fifty firms feel that our subscribers and readers are men of business willing to buy, and desirous of selling, all that is good and novel in their line of trade. It is almost a matter of form for us to ask a thorough examination of these supplements, for we observe that, with few exceptions, these firms have entrusted us with the distribution of similar supplements on previous occasions; we may, therefore, conclude that our subscribers have studied them in the past, and thereby come in touch with the advertisers. This is the object of advertising, and one of the reasons for our existence—to bring buyers and sellers together, even though continents and oceans may separate them. We record with satisfaction that the copies of our Winter Issue returned to us by the postal authorities on account of non-deliverability could be counted on the fingers of two hands. This is a fact to which we call the special attention of advertisers. In his last report the Postmaster-General mentioned, with thinly-veiled regret, that nearly three million circulars had been returned through the Dead-letter Office during the year. It is a growing number, too, because the redirection regulations are bringing more and more refusals by addressees. The reason for our delivery of 999 out of every thousand circulars which we undertake to deliver is that our registers are kept up to date by daily checking. We have no dead-heads on our books; every name is the name of a business man.

Apart from this important consideration, traders should note that the cost of distributing circulars and price-lists by insertion in THE CHEMIST AND DRUGGIST is only a fraction of the cost when undertaken by firms themselves. The trouble is incomparably less, and the results are better. Our publisher is at all times willing to give particulars as to the printing of circulars, and he also gives advice, if desired, in designing those which are to be illustrated. Manufacturers should note that this is the only method of advertising in which they can incorporate facsimiles of their labels, or illustrate the exact appearance of their specialities. Several examples in this issue show most forcibly the importance and value of such circulars.

The next occasion on which we can accept circulars for insertion will be our Winter issue, January 26, 1895.

NOTE.—The pages referred to in the following paragraphs are those between which the circulars will be found.

**A** DISTINGUISHING feature of this issue of THE CHEMIST AND DRUGGIST is the large number—the largest in our experience—of circulars and price-lists which we incorporate with it

the art of Armour's killing has Products. its home in Chicago, where ARMOUR & CO. take the lead in the stockyards in the utilisation of the by-products which accumulate in providing man with his chops and steaks. The growth in their hands of a distinct branch of chemical industry has resulted in a rich provision of digestive products, the nature of which they enumerate in their circular, which is backed by some plain words to chemists regarding the trade in extract of meat. We commend this address to "live men" (pp. 80-81).

**A Form to Fill.** Our foreign and colonial readers have the distinction of receiving three supplements more than home readers. The first to be mentioned is in lavender, and is supplied by BAISSE BROTHERS & CO. Herein they quote low prices for leading drugs and specialties which will surely cause many to fill up the order-form that constitutes the last page (pp. 192-193).

**Benger's Food.** Perhaps there is no part of the chemist's stock which responds so promptly to public taste as infants' foods. Enhanced knowledge of infantile alimentation has done much to effect a change in the stock during recent years, and advertising has been equally powerful. The latter point is emphasised by F. B. BENDER & CO. (LIMITED) in their circular regarding Benger's Food, which retailers will consider sufficient reason for giving this article prominence, while Mr. F. B. Benger's studies of alimentation, well known to pharmacists, and professional and maternal opinion attest the value of the food (pp. 64-65).

**Ink.** This is not the first occasion we have had the opportunity of calling attention to the production of the striking handbill which BEWLEY & DRAPER (LIMITED) make the subject of their circular. It refers to the famous dichroic ink. From present experience we can endorse the opinion which we published regarding this ink many years ago, and to that we may add that it is an excellent ink for fountain-pens. There are few really good inks for that purpose (pp. 64-65).

**Vinolia.** BLONDEAU & CIE'S list is illustrative of the various kinds of "Vinolia" soap put upon the market by that enterprising firm. There are now ten varieties of this soap, including the medicated and shaving soap. In addition, eighteen kinds of Blondeau's perfumed toilet-soaps are prepared by the firm. The bulk of these consist of the "Vinolia" soap basis and are delicately perfumed. "Vinolia" perfumes, powders, creams, and dentifrices also occupy considerable space in the list. The detailed announcement regarding terms and discounts will be found very useful (pp. 64-65).

**Tale of Two Frogs.** Those ever-fresh-in-style printers, BOWERS BROTHERS, tell a froggy tale about the wisdom of always keeping at it, especially in advertising. Wholesaler, as well as retailer, may gather points from what

they say in regard to circulars, and advertising generally. Messrs. Bowers' strong point is that they are advertising experts as well as expert printers (pp. 64-65).

**Not a Sucked Orange.** One of the cleverest things amongst the supplements is addressed to "thirsty souls," by BRATBY & HINCHLIFFE (LIMITED). There is money in the unsucked orange, it will be found.

It would be vain to say that kola has come up to the mark that was predicted for it. It is no rival to tea, coffee, or cocoa, but it has supplied a want which was keenly felt. Cold tea and frozen coffee can never be popular, but "Kola Tonic" provides us with similar, if not superior, properties in the form of a cool aerated drink. Bratby & Hinchliffe are wise in giving point to this factor. It is the natural position of kola in civilised society, and they are wise who take advantage. Note also the firm's own essence specialities, and if you have a desire to begin the manufacture of aerated waters, or to replenish your machinery, turn to their circular on soda-water plant. It contains a lot of ideas specially interesting to chemists; also quotations for bottles and syphons. The firm are the manufacturers of the "Eclipse" seltzogenes, which are the subject of a third circular, and by a happy coincidence the back of this is devoted to fruit syrups and wines. Business can be done in these with the seltzogene customer, who dearly loves variety and something non-alcoholic (pp. 32-33 and 64-65).

**Wines and Spirits.** No one can miss the S.V.R. and S.V.M. of JAMES BURROUGH, the Chelsea distiller.

They stand prominent in his circular, but there are blended therewith all the wines used in pharmacy and for the table, while liqueurs recall the odour of coffee and cigars, and the more prudent have offered to them special Scotch and Irish to which we can take no exception (pp. 128-129).

**B., W. & Co.'s Trio.** The elegant cover, on which the Phoenix Mills at Dartford are the central pictures, is now so closely identified with BURROUGHS, WELLCOME, & Co.'s products that chemists will know by its appearance in this number that it contains the firm's latest trade price list. It should be hung up at the desk for future reference, but before that is done it should be noted that there are several new features in the list, and a number of new products are described. Along with this list, and making a trio, are two water-colour reproductions on show-cards, which are worthy an immediate place on the counter, or in the window. One of these shows a harvest scene, with a buxom gleaner on the load of barley. It is not difficult to understand that her companion is moonstruck, or that the picture appropriately typifies the beneficence of Kepler's malt preparations. The other picture takes us into Arcadia, where Phyllis and a chubby Cupid dance to pipe and fiddle in praise of lanoline; nor do the sheep seem displeased at the benefits they have conferred upon mankind by that modern ungent lanoline (pp. 87-96).

**Camwal Waters.** We have hesitated whether to head this paragraph "Camwal Waters" or "Camwal Progress," for both are the subject of the circular inserted by THE CHEMISTS' AERATED AND MINERAL-WATERS ASSOCIATION (LIMITED). The association is the most prosperous co-operative body of chemists ever founded in England, and it owes its prosperity to the sound methods on which its business is conducted. Chemists are not such fools as to join the Association for the sake of the good dividend merely, they must get satisfaction with the goods supplied, and that is where the Association has scored (pp. 32-33).

**Chinnery's Machines.** There are few machines adapted for making bottled aerated water with a charge of tartaric acid and bicarbonato of soda. The best we know of is made by CHINNERY & CO., who figure and

describe it in their circular. It is also adapted for use with liquefied CO<sub>2</sub> or chemicals, and quotations are given for both kinds. The circulars deal consistently with the advantages of the apparatus (pp. 32-33).

**Cook's Soaps.** EDWARD COOK & CO.'S circular is as prettily got up as their soaps are. The firm are doing an increasing business with chemists, for their soaps are exactly suited to the trade. "Purity with prettiness" might stand as their maxim, if it did not leave out the important element "price," which in these cutting days is a first consideration with the retailer. But the Messrs. Cook's list is eloquent there (pp. 32-33).

**Colonial and Foreign.** In the copies of this number sent to colonial and foreign parts is a price-list of GEO. CURLING & CO.'S manufactures, which include granular preparations, capsules, and a variety of medicines and toilet articles specially prepared for exportation. The firm announce that they have considerably enlarged their establishment by acquiring an additional building in St. Mary Axe (pp. 192-193).

**Esset's Fluid.** J. W. DRYSDALE & CO. repeat the insertion of the Esset's Fluid Circular, which they first caused to appear in our last Winter Issue.

Esset's Fluid is a comparatively new disinfectant, but it brings credentials which are bound to secure it at least a trial, and when that has been given the proprietors have no fear of the verdict. Doctors, duchesses, bacteriologists and analysts speak well of its advantages as a non-poisonous, non-corrosive soluble germicide and deodoriser. Esset's Fluid may be had in bottles or canisters (pp. 192-193).

**Copying.** There are many in the trade who want to produce a few circulars at a cheap rate—e.g., those who follow the Store prices which we periodically record may wish to strike off some "Changes in Prices" for distribution at the counter. To such ELLAM'S DUPLICATOR appeals. It is not a graph affair, but an actual stencil-printing process, which works with facility and is not costly. Examples of the work are given on the company's circular (pp. 32-33).

**Ruthin Waters.** A faithful reproduction by photography of the Welsh castle, which they had at the recent Cambridge Agricultural Show, is used by R. ELLIS & SON as a headpiece to their circular on Ruthin Waters. An equally effective picture is the telegram one on the second page. Messrs. Ellis have the good fortune to own an inexhaustible spring of water, which such opposed authorities as Frankland and Wanklyn agree to be a water of exceptional purity, and with this important starting-point, backed by careful manufacture, they have taken first rank in the aerated water industry (pp. 32-33).

**A Devon Firm.** EVANS, GADD & CO., of Exeter, insert a circular for the purpose of calling attention to the fact that they have completed extensive alterations on their premises, which have greatly increased their facilities in the manufacturing department. Photographic reproductions of their laboratory and grinding department show that they have an excellent equipment for producing pharmaceutical preparations. Other departments are noted, including stationery (pp. 128-129).

**Shop-fittings.** During the past decade the shop-fitting business has been considerably decentralised, EVANS, SONS & CO., of Liverpool, having taken a large share of what was previously executed in London. They give a view of their cabinet-making works and workmen, and a selection of letters (all dated this year) from chemists who have had work of this kind done by the firm. These are flattering testimonials. We note that show-cases are a strong feature with Evans, Sons & Co. (pp. 32-33).

The Parliamentary inquiry in regard to the working of the Adulteration Acts has again brought into public prominence the iniquitous deception practised on the public in-

**"First Swiss Milk."** the sale of condensed skim milk. We, therefore, regard the FIRST SWISS ALPINE MILK-EXPORTING COMPANY's circular as a timely one.

**Milk.** This company are manufacturers of unsweetened condensed milk, which is an excellent infants' food, a fact which is set forth in the circular, and its sale yields an excellent profit to the chemist (pp. 64-65).

**Disinfectants.** The GAS LIGHT AND COKE COMPANY, LONDON, which converts more coal into illuminating gas than any other company in the world, has recently commenced to treat residuals directly. The result is that the company is in an extremely good position for offering carbolic acid and carbolic preparations. For these Mr. W. G. Blagden, 4 Fenchurch Avenue, is agent. Facsimiles of the manner in which the company's carbolic acid and disinfecting powder are packed are shown in the circular. It will also be noted that the company manufacture benzene, and offer a special disinfecting-fluid called Bectol—from Beckton, where the chief works are (pp. 192-193).

**Three in One.** The principal features of WILLIAM GLENDENNING & SON'S circular is a triumvirate of muscular youths, who are the embodiment of Kepler Malt Extract, Mosquera beef jelly, and Alto-douro port. These are the constituents of Glendenning's Beef and Malt tonic, a preparation which has become quite a public favourite, and which pharmacists may handle without fear of promoting the sale of anything else than a restorative and strengthening wine (pp. 64-65).

**Oils and Paints.** The number of chemists who stock oils, paints, and varnishes is ever increasing, and so are the facilities offered to those who already run such a department or contemplate opening one. WM. GRAY & Co., of Hull, give a price-list of their principal paints (ground in linseed oil), colours (in turpentine), and varnishes. The liquid paints are known by the name of "Ivy" brand, and a formidable list of goods with which they supply the Government is given on one page of their "inset." White lead is another of the firm's specialities (pp. 192-193).

**Eclipse Bottles.** Once more HEARN, WRIGHT & Co., the bottle-manufacturers, come forward with a circular which is striking in design and execution. On this occasion John Bull leads the way, Britannia pointing out to him the road to success, which happens to pass through the "Eclipse" bottle-works. The other pages are, if anything, more effective, the manner in which the quality of Eclipse stoppered bottles is shown being clever and original (pp. 128-129).

**Leaders.** In a price-list which is as well-packed as their own warehouses HOCKIN, WILSON & Co. show by illustration and price how well they cultivate their druggist's sundries trade. The firm are specially noted for the "Little Beauties" feeders (which are veritable leaders), and for the admirable manner in which they put up every-day wants whether medical or sundrical (pp. 128-129).

**Tinctures in Bond.** THOS. HODGKINSON, PRESTONS & KING send through us to colonial and foreign chemists a price-list of tinctures, spirits, fluid extracts, fruit essences, and other alcoholic preparations made by themselves in bond, and shipped to colonial buyers free of duty. The firm, we note, are contractors to various Government departments, and as wholesale druggists are as well-known abroad as at home (pp. 192-193).

**Chemists' Plant.** This is the first time that HORNSBY & SONS (LIMITED), engineers, appear among our advertisers. It will probably not be the last. Many a pharmacist—not only the wholesale man pure and simple, but the retailer who has some speciality of his own—requires motive-power, and for that purpose the "Hornsby-Akroyd" patent safety oil-engine is admirably adapted. To work it costs less than a halfpenny per hour per actual

horse-power, and at the recent agricultural exhibition at Cambridge it carried off two first prizes (pp. 32-33).

**Homœo-pathy.** Homœopathic medication is represented in our supplements by LEATH & ROSS, of whose counter showcases four illustrations are given. These cases are obtainable in great variety, at prices ranging from 3*l.* 3*s.* upwards, but customers can have special kinds prepared according to their own design, or from any wood not in the ordinary stock-list. The bent-glass counter showcase is already kept in over 2,500 pharmacies in this country alone, and there is no more familiar sight in any "English pharmacy" all over the world than one of these handsome pieces of shop-furniture (pp. 192-193).

**The T. HOWARD LLOYD & Co.** are the makers of "Leicester" soluble pearl-coated pills, of which particulars and prices are given on the second page of their handsome circular. These pills are sold both by number and weight, and samples may be obtained on application. But the firm do not take their stand upon pills alone. The "Colloid" capsules, specially recommended on account of the accuracy of the measurement of their ingredients, "Bi-conical" capsuled horse-balls and the granular effervescent preparations are but a few out of the many pharmaceutical specialities with which the name of the Leicester house is linked (pp. 129-129).

**Our Biggest Supple- ment.** The biggest supplement in this issue is LORIMER & Co.'s. The Islington firm occupy 110 pages—not counting the cover—mainly in giving extracts from their 1894 price-list. There is a very useful index and alphabetical price-list, several pictorial representations of the factory, and a great variety of illustrated notes on household articles, sundries, and the like. The firm also act as sole agents for Fels's germicide soap (pp. 108-109).

**"McK. & R."** These initials, which are almost as well known in the United Kingdom as in the United States are prefixed to the formula-list of ovoid capsuled pills which we distribute for MCKESSON & ROBBINS, of New York. Useful notes are appended to some of the formulæ, and on the fourth page are a figure and description of the "Pulverflator," an instrument for throat-medication now much ordered by specialists in this country (pp. 80-81).

**An Old-fashioned Remedy.** There is but one page of reading on the circular of Dr. John Hooper's Female Pills, the reason being that the inset is a facsimile of a handbill which MAY, ROBERTS & Co. are prepared to supply to any chemist stocking this preparation. The late Dr. John Hooper has long ago been taken to Abraham's bosom, but his pills keep marching, and cleansing, on as they have done since 1743, when the King's Most Excellent Majesty granted them letters patent (pp. 128-129).

**Folding- Boxes.** A business-like and illustrated sheet is provided by the NATIONAL FOLDING-BOX COMPANY (LIMITED). It refers to their patent folding-boxes, and their proposition that chemists and druggists should use these liberally is reasonable. For specialities, we all know, these cartons are admirable, and they should be more used in dispensing businesses, as they afford facility and security of packing, which are not possible in the old-fashioned way. The company execute orders for 1,000 with any printing desired (pp. 32-33).

**Mason's Temperance Drinks.** When the history of the Victorian era comes to be written, we should think that the historian will have a fruitful topic in the abolition of the Malt Tax. Contemporaneously with that event there was created a demand for light brewed ale, which no brewer has yet attempted adequately to supply, probably owing to the fact that the public, stirred by NEWBALL & MASON'S picturesque appeals, have taken to making herb-beer. The simplicity with which it is done is

exhibited in their lithographed circular. Given a bottle of Mason's Extract, a pound or two of sugar, a kettle of boiling water, some barm, and a homely grandmother brews a beverage which both peasant and priest enjoy, and which makes the world young again. So we read the allegory (pp. 32-33).

**Roman Medicino by Oppenheimer.** We cannot at present recall a pharmaceutical advertisement so original in design and execution as that which we insert for OPPENHEIMER, SON & CO. (LIMITED). Certainly we have never put anything similar to their circular in THE CHEMIST AND DRUGGIST before. When the firm went to Rome last spring to exhibit palatinoids, liquors, and other of their manufactures at the International Medical Congress, their display caught the eye of the Jury of Awards, who selected it for the unique distinction of a gold medal. As a kind of return compliment, Messrs. Oppenheimer now present our readers with a history of Roman medicine, *temp. 79 A.D.* This history is graphic and intensely interesting. It is recorded on stone tablets, which have been faithfully and appropriately reproduced by the lithographer. We hesitate to detract from the interest which a perusal of the monograph affords, but we venture so far as to say that the Romans of the first century knew many things about medicine and surgery which we know no better to-day, and they had progressed in animal medicine as far as British physicians of the eighteenth century ever went—and that is saying much. The monograph is illustrated by vases, bottles, pixidia, and apparatus used by Roman followers of Æsculapius, and there are also drawings of a large number of Roman surgical instruments, with notes on their use. These have in all cases been made from the originals. Might we suggest that Messrs. Oppenheimer add a catalogue of the instruments? There are many in pharmacy and medicine who would appreciate this. It will be noted that Messrs. Oppenheimer say little or nothing about themselves in the whole circular, but then they have *their own* Roman record to fall back on (pp. 80-81).

**Pharmaceutical Machinery.** We insert for PALAU & BÉRA, of Paris, a select list of pharmaceutical machinery which they manufacture. They have quite original ideas in regard to pill, lozenge, and capsule machinery; indeed, there is no department of pharmacy to which they do not give attention, and in view of many inquiries which we receive, we have pleasure in calling attention to this list. We understand that the firm have supplied a number of English manufacturers with apparatus (pp. 80-81).

**Parke, Davis & Co.** It has rarely happened during the many years that we have distributed circulars to the trade that we have had the pleasure of receiving such a handsome and practical list as that which comes to us from PARKE, DAVIS & CO., of London and Detroit. We put London first, because we are fairly entitled to regard the firm as a London house, since they have a laboratory and all business accommodation in the Metropolis. This price-list is an artistic production, showing the firm's laboratories and offices in London, Detroit, Walkerville, Ont., New York City, and Kansas City. Six pages are devoted to reduced facsimiles (in colours) of the styles in which Parke, Davis & Co.'s fluid extracts, pepsin (aseptic) and its preparations, solid and powdered extracts, gelatin-coated pills, elixirs, syrups, liquors, and other pharmaceutical and dietetic specialities are put up. The whole production will be particularly useful to pharmacists in their dealings with medical men. For the collection of vegetable *materia medica* Parke, Davis & Co. have the most perfect organisation, their herbarium in Detroit, and correspondence with collectors throughout the world, requiring the entire time of three pharmacists, who are skilled botanists. This

is one detail—a fundamental, so to speak—and right up through all branches in their Detroit factory—in the picking and grinding rooms, manufacturing laboratories, pill and capsule rooms—there is the same spirit of thoroughness that we find in the purely scientific work of the establishment (pp. 80-81).

**Pears' Pages.** "Come here you rascal, it's *Pear's*," is the title of the charming picture on the first page of the supplement of A. & F. PEARS (LIMITED).

Pears' soap is too well known to require a fresh exposition of its virtues; the proprietors therefore content themselves with an enumeration of their various makes and prices, and an important announcement concerning their terms of discount which are always the same (pp. 32-33).

**Herb Beer.** An allegorical sketch representing the crowning of Temperance (here represented by Potter's herb-beer extract) is used by POTTER & CLARKE as the first page of their circular concerning the extract. The Tooleian face of the king is a happy augury to the reign of the new monarchy, and doubly happy it must be when the Chancellor of the Exchequer can regard the cause of it so benignantly. We did not succeed in hitting straight off the identity of the personage who is in the act of crowning the king, and should any dispute about him occur in any chemist's happy household or pharmacy, all unpleasantness may be avoided by dropping Potter & Clarke a postcard or drowning it in their herb beer (pp. 32-33).

**Chemists' Stationery.** A special price-list is inserted on behalf of H. SILVERLOCK, the well-known chemists' printer. This gives quotation for labels—dispensary and printing—as well as particulars regarding a selection of books published by Mr. Silverlock, which include a series of books of account, &c., especially adapted to the trade. To these are added quotations for wrapping and other papers used or sold by chemists. The circular as a whole may be taken as a fair example of Mr. Silverlock's letterpress work (pp. 64-65).

**Photography.** At this season chemists in health resorts find that they can do good business in the sale of scientific apparatus, but their difficulty is to discover where they can get articles to retail at a considerably low rate. To such we commend the illustrated price-list of J. H. SKINNER & CO., East Dereham, who make really practicable and useful photographic sets for boys and girls, to retail at 3s. 6d. and 7s. 6d. But we refer those interested to the list itself, especially as we have selected from it only two items of a business-like series adapted to chemists' trade in photography (pp. 64-65).

**An Artistic Circular.** We have a certain degree of satisfaction in being the medium for circulating such an artistic creation as that which we insert for STEPHEN SMITH & CO., medicated wine merchants, of Bew. This is used for showing reduced facsimiles of the style in which Hall's coca wine and their orange quinine wine are put up. Alongside these are trade testimonies on the intrinsic and selling properties of the preparations, and the last page is a pretty price-list of wines and S.V.R. (pp. 32-33).

**Paraffin. Molle.** Dr. Samuel Rideal has supplied SNOWDON, SONS & CO. with two reports on the petroleum-jelly manufactured by them which are interesting reading. He speaks highly of the yellow and white varieties, and, what is most interesting, contrasts them with vaseline (pp. 128-129).

**For Doggie.** We are glad to know that chemists have found a new and profitable branch of business in retailing the dog and other animal foods and specialities made by SPRATT'S PATENT (LIMITED). In the list which that company insert there are given full particulars as to the properties of the respective dog-cakes and biscuits, as well as a list of the company's medicines. It will be seen

that both departments afford the chemist scope for quiet and cleanly business (pp. 192-193).

**Stearns of Detroit.** As an earnest of their intentions in recently opening a branch in London, FREDERICK STEARNS & CO., Detroit, U.S.A., have sent us a consignment of a combined price-list and business monograph which we anticipate will be one of the favourite bits of reading in the Summer Number. None but those who have visited Detroit can conceive the gigantic proportions of the Stearns' pharmaceutical factory. The enormous business area which the States afford, the keen enterprise of business men, and the rapidity with which businesses grow there, are the chief causes for such establishments as this. We think it wise of Messrs. Stearns in appealing to the trade in Europe, the Colonies, and the East to give themselves so effective an introduction as their supplement contains; for the illustrated description of their factory, which forms the second part of the circular, will show the reader at once the character of the house which solicits his custom. The firm is one of the oldest drug firms in the United States, and it is through the vigour of its young president, Mr. F. K. Stearns, that more direct relations with English trade have been established. A list of manufactures forms the first part of the supplement, and herein the advantageous position of the firm as suppliers is set forth (pp. 64-65).

**Tin Boxes.** The elaborately-coloured supplement devoted to tea and biscuit-canisters is a sufficient attraction to the manufacturers of the TINPLATE DECORATING CO. (LIMITED). Besides the kinds of boxes figured the company manufacture tin ointment-boxes, and all kinds of plain and decorated tin containers used in the drug and sundries trade. Their supplement may almost be regarded as a reply to repeated queries under "Information Wanted" (pp. 32-33).

We take the heading from TOMLINSON & "Firm HAYWARD's dairy-requisite circular. In the Butter." half-century which covers the reputation of their butter-powder, it is not surprising that imitations of it have arisen, and upon this point they address the trade. Our own experience in the matter is that T. & H.'s butter-powder sells itself, and we should not think it worth while to waste time and temper pushing an imitation (pp. 32-33).

We notice amongst the sheet of sample labels **Labels.** inserted by JAMES TOWNSEND, of Exeter, several examples of the round-corner slips which Mr. Townsend makes a speciality. These are the tidiest possible labels for daily use. The sheet also includes some beautifully-engraved stock labels. On the back are particulars and quotations for other kinds of chemists' printing and stationery, including almanacks and handbills (pp. 64-65).

Bond Street, the business centre of fashionable **Truefitt's** London, is noted for several shops which were **Specialities.** known to our grandfathers, and of these one that is as fashionable to-day as it was a generation ago is H. P. TRUEFITT'S. There it is that our country cousins get the latest styles in hairdressing and moustache-curling; and there, too, are they introduced to exquisite things for the preservation of the skin and hair. Hence country pharmacists—for that matter, pharmacists everywhere—have become acquainted with Truefitt's preparations. We insert a price-list of them (pp. 64-65).

The latest in funnels is introduced to British **Glassware.** pharmacists by the VON PONCET GLASSWORKS, of Berlin. We have been noticing the funnel recently in German pharmaceutical journals. It will be seen that it is constructed on a new principle, and made of glass, the interior surface being such as to obviate obstruction of the liquid which passes through the filter. The same circular describes a new antiseptic inhaler, devised by Dr. O. Siemon and recommended by Dr. Theodore Williams. As these

articles are likely to be in demand, we call the special attention of wholesale houses to the circular (pp. 128-129).

**Wands-Worth Disinfectants.** The WANDSWORTH CHEMICAL WORKS (LIM.) insert a condensed price-list of their manufactures, which are chiefly derived from coal-tar and petroleum, but include all the better-known kinds of disinfectants and deodorisers. We may note, e.g., the "Pineotas," carbolic preparations, chloride of lime (packed), petroleum-jelly, and sheep-dips. Quotations are given for retail and wholesale quantities, and the firm offer to undertake the packing of goods with any name (pp. 192-193).

**Gripe Water.** A pithy sermonette is delivered by W. Woodward in reference to the baby, his mother, and the chemist. An excellent facsimile of Mr. Woodward's gripe water as it is put up for sale is the inciting cause of a sermonette, the moral of which is that it pays better to sell Mr. Woodward's gripe water than to imitate it. Colonial and foreign chemists especially should compare this and other facsimiles with goods offered or supplied to them, especially from the continent of Europe, as there exist there several factories for the imitation of English specialities. The preparations sent out by these trade-thieves are of the most wretched description; it is only in respect to labels and wrappers that they imitate the originals (pp. 128-129).

### BILLY.

I'm offy an orfun, sir, came from the work's straight,  
Fur t' be message lad t' Farmersist Flint,  
I sleep in the cellar, sir, and all my suppers' ate  
By the big rat, sir, wot eats up the mint.

Yes, I cleans the boots, sir, and 'elps of the servant Jane,  
I scrubs out the pantry and rubs up the tiles;  
I wipes all the bottles, sir, washes the winderpane,  
Langs round the syphons and gets kicked by Byles.

Byles 'e's the 'prentice, sir, big snenkin' brute 'e is,  
Splits on the senior w'en 'e goes for a drain,  
'T me with the pestle, sir, see wot a lump it'sriz,  
'Cos I ate the tart, sir, wot h' stole from Jane.

I weighs out the chloride, too, rubs up the scales so bright,  
Washes the dusters and runs out the dog,  
Pnts up the shutters, sir, 'alf-past ten every night,  
Runs for the beer and gets lost in the fog.

Or, it's "Billy, run down for this," and "Billy, be quick with that,"  
An' "Hurry up, Billy, or I'll bang yer 'ed,"  
Ye, I'm bloomin' appy, sir, that's w'y I'm big and fat,  
At 'that's w'y I on'y don't wish I was led.

W. C.

### THE SMASH.

HIRUDO sat on the edge of a shell, and leered in the shopboy's face.  
He said, "Come forth, my fearless youth, and take me from this place,  
For I love to climb up the ten-ounce grad, and roam o'er the toothbrush-  
ease."

Now the shopboy loved Hirudo grim, so he took him from his shell.  
He sat him down on the chloride cask and watched Hirudo swell.  
As he mocked at the cat, who stood on her ear, and swar' of a vengeance  
fell.

He tied the feline tail to the cork of the bottle of sol. ammon.  
What time Hirudo climbed from the grad, to cross the Rubicon:  
But dropped down pat on the feline back, and she sprang to the floor of  
stone.

Now the sol. ammon. (which was fort.) was fixed, so down it came with a  
crash,  
And the boy and the cat and Hirudo grim were nigh at their conduct  
rush,  
So they laid them down and gasped and died. And that is the tale of the  
smash.

W. C.

## Trade Notes and Novelties.

MESSRS. COOPER & Co., of 2 New North Road, N., have issued a new price-list of their concentrated liquors for syrups and concentrated waters.

MESSRS. BURROUGHS, WELLCOME & Co. have been awarded a grand diploma of honour and gold medal, at the Scientific Inventions Exhibition at Venice.

MESSRS. NESS & COMPANY, of Darlington, have obtained a gold medal for their sheep-dips and thymocresol disinfectants at the Californian International Exhibition, held at San Francisco.

MESSRS. MARTIN, PERLS & Co., 62 and 63 Basinghall Street, E.C., have issued a new price-list of all the materials for soap-making, including machinery, moulds, chemicals, perfumes, and colours.

A NEW price-list of all styles of rubber-stamps, with designs of monograms, addresses, and stamps for various uses in business and privately, has been lately issued by Mr. J. Hickisson (proprietor of the Crystal Palace John Bond's Marking-ink).

MESSRS. R. W. GREEFF & Co. have acquired the agency for Benno Jaffé & Darmstädter's glycerine, which was formerly held by Messrs. Haller & Co. Mr. Fred. Boehm has made arrangements for the representation of Orth & Co.'s glycerine, hitherto sold in this country by Messrs. Greeff & Co.

MESSRS. PINCHIN, JOHNSON & Co. have in this issue a four-page advertisement containing a very extensive list of colours, oils, varnishes, and drysalteries generally. A growing number of pharmacists are interested in these goods, and it will pay them before ordering to give the Billiter Street firm an opportunity of tendering.



A BRITISH dépôt of Emerson's bromo seltzer has been established at 46 Holborn Viaduct (the warehouse of Mr. John Morgan Richards). This is a granular effervescent preparation intended to be taken in cases of nervous headache, neuralgia, &c. A novel kind of showcard is supplied to advertise it. It is a steel frame representing a much-enlarged bottle with spaces for containing a small stock of the article, the actual bottles showing in the dummy one. The showcard case is planned to hold half-a-dozen bottles of the remedy, and the whole is packed in a cardboard case.

MESSRS. G. R. STOKES & Co. (LIMITED), of Hanley, have recently made some improvements in their patent cash-till, which may be said to bring it a little nearer perfection. First, they have designed an improved check action, which permits the drawer to be re-opened at any point after having been closed  $\frac{1}{2}$  inch, but at each outward movement of the drawer the registration-paper travels one space and the bell rings. Hitherto it has been compulsory to close the door entirely to secure this advantage, thus creating confusion in busy periods. Larger money-bowls are now supplied, giving increased coin-holding capacity, but at the same time occupying very little counter-space. The improved unwinding gear lately added enables the operator, by simply pulling a handle, to liberate the drum on which the paper is coiled; thus the paper can be unwound as easily as an ordinary spool of cotton. Users of check-tills who are accustomed to tear off and file each day's record of takings will not fail to appreciate the arrangement, which allows both hands to be free to handle the paper. This is effected by the addition of a simple contrivance, which virtually does the work that previously required the services of one hand. The width of the paper used for entries has been

increased from  $2\frac{1}{2}$  to  $2\frac{3}{4}$  inches, but the till is still of 7-inch width, and, notwithstanding the improvements mentioned, remains only 17 inches long. A new departure on the part of the firm is the manufacture and sale of rolls of paper suitable for all the tills in the market, in rolls of 20, 45, and 65 yards.

APOLLINARIS with fruit syrup is a favourite drink at the present time of the year, as many pharmacists know by the business they are doing in it. The "splits" and small bottles are useful for this purpose, but the chemist will find that, whenever he can supply two customers at the same time, it will pay him best to use the large bottles, divided.

MESSRS. JOLLY & SON, of 219 Oxford Street, who are advertising "Duchess" pills for anaemia, offer a particularly attractive showcard to chemists who will stock their goods. The card represents a particularly pretty girl's face, surrounded by a wreath of fruits, well drawn and in natural colours. The pills themselves are put up in elegant style, in dull gold metal boxes, each enclosed in a leatherette case.

MESSRS. WM. ARMOUR & Co., of 59 Tooley Street, E.C., have devised a small metal card-case, which they are pleased to supply to their friends. The card contains on the outer leaf a calendar for the current year, and has a blank leaf inside for notes. For the benefit of visitors to the forthcoming B.M.A. meeting, Messrs. Armour have inserted a programme of the proceedings in the cases to be distributed on and before that occasion.

MESSRS. BURROUGHS, WELLCOME & Co. send us a letter they have received from the Italian Minister of Instruction expressing his appreciation of the tabloids they prepare for the injection of quinine in malarial fevers. "His Excellency has been for some time aware of the singular value of the pharmaceutical products of the valiant Mr. Burroughs, and, consequently, observes with pleasure that he has brought his activity to bear on the best application of his discovery for the cure of malaria."

MESSRS. BENNETT, SONS & SHEARS (LIMITED), of Kingsland Road, N.E., engineers and coppersmiths, whose artistic advertisement of their manufactures in this issue will certainly attract attention, have lately fitted up laboratories with the most modern plant and apparatus for Messrs. Evans, Gadd & Co., manufacturing chemists, Exeter. Messrs. Evans, Gadd & Co., who have been established in Exeter for over a century, have recently acquired extensive additional premises, and have set up new machinery for all kinds of pharmaceutical operations.

MESSRS. CRESSWELL BROTHERS & SCHMITZ inform us that the sponge exhibition at their warehouses, 18 and 19 Red Lion Square, will be continued for some time longer. They have just made an arrangement with Messrs. George Philip & Son, the Fleet Street publishers, who have prepared a series of photographic slides of various kinds of sponges, and of several curiosities connected with sponge-fishing in the possession of the Messrs. Cresswell. This series may be obtained from Messrs. Philip & Son at a reduced price by chemists desirous of giving an illustrated lecture on sponge.

MESSRS. DAN RYLANDS (LIMITED), Barnsley, have issued a new abridged catalogue of their latest inventions in mineral water trade apparatus. This list includes a new machine for making aerated waters by means of compressed carbonic-acid gas. The usual generator and gasholder are dispensed with, leaving only the cylinder and pump, with the necessary valves, &c., fitted on a neat and compact framework. The pump is also much smaller than in ordinary machines, and much less driving-power is consequently sufficient. These machines are made in all sizes. In the new catalogue is also included a new rotary bottle-washer, and some half-a-dozen filling-machines of the latest designs which are not to be found in the firm's large catalogue.

FLY-PAPERS.—No part of this issue will be found more generally amusing than the group of pages 21 to 31, which represent the various fly papers on the market. We hope to hear that all the firms who have contributed to that display will get handsome returns for the money and brains invested therein; but it is needless to say that if they do it is going to be an ugly summer for the flies. We do not wish to spoil the fun by describing here the ideas indulged in, but we advise the most dilettante reader to turn to the section.

We may mention also that we have received from one of these makers, Mr. David Buchan, of Flockheim, a sample tin of his "Death Jam," which smells like strawberries, and sticks like— We have left this paragraph unfinished until the last moment, and no sufficient simile has yet occurred to us.

MESSRS. H. GILBERTSON & SONS are bringing before the trade a new form of bed-pan, to which they have given the



designation "The Ideal." The particular feature of this appliance is that it is made with a removable top or seat, so that it is more easily cleaned than the ordinary form of bed-pan.

MESSRS. W. B. FORDHAM & SONS, of King's Cross, have been appointed the sole English agents for the Estes



(American) Roll-top Desks. These are made in all sorts of designs and in various woods, and range in price from 5*l.* to 20*l.* We show one of them in the engraving attached.

## Patents.

The following applications for Patents have been registered at the Patent Office.

**Alkaline Bichromates.**—5,178.—March 13, 1894.—M. W. Beylikgy.

**Ammonia.**—4,013.—February 24, 1894.—A. R. Davis.

**Bottle-stoppers.**—4,125.—February 27, 1894.—J. Liddle.

**Cramp-cure.**—5,380.—March 15, 1894.—C. Anderton.

**Filters.**—3,867.—February 23, 1894.—F. R. Lipscombe.  
—5,126.—March 12, 1894.—D. Appleton.

**Herbal Extract.**—3,553.—February 19, 1894.—R. Haddan.

**Indicating-bottle.**—5,388.—March 15, 1894.—J. W. Legg.  
For poisonous or dangerous medicines.

**Inhaler and Receptacle for Medicine.**—5,432.—March 15, 1894.—F. H. Wyeth.

**Inhalers.**—3,934.—February 23, 1894.—F. A. Dietrich.

**Ketone Musk.**—4,018.—February 24, 1894.—W. Mallmann.

**Medicinal Compounds.**—6,727.—April 4, 1894.—W. Bowers, J. R. Kilby, and A. Barker.

**Metal Bottles and Stoppers.**—5,362.—March 14, 1894.—H. Lane and J. Pullman.

**Naphtho-zarine, &c.**—3,828.—February 22, 1894.—J. Y. Johnson.

**Poison-bottle.**—5,669.—March 19, 1894.—F. Postle-thwaite.

**Poison, &c., Bottle.**—6,324.—March 29, 1894.—W. Stephenson.

**Potassic Cyanide**—6,925.—April 7, 1894.—W. M. Mackey and J. F. Hutcheson.

**Respirator.**—5,127.—March 12, 1894.—Anna M. Richter.  
—6,532.—April 2, 1894.—F. Bennett.

**Tooth-brushes.**—6,804.—April 5, 1894.—R. Rosenblath.

## SPECIFICATIONS PUBLISHED.

Copies of the following may be obtained from the Patent Office, by post, on application by card obtainable at any post office for 8d.

1893.

2,896. Iseli. Filters for alcohols, oils, &c.

2,951. Morris. Using chemicals, drugs, and perfumes for therapeutic, &c., purposes.

4,310. Gray. Zinc oxide.

5,197. Hargreaves & Bird. Producing alkali.

6,178. Mandall. Medicinal compounds.

6,543. Brandreth. Corn-plasters.

6,749. Kolbe. Salols.

6,953. Molyneux & Potts. Disinfectants.

7,038. Pitt. Antiseptic material.

7,108. Hurter. Mono-calcic phosphate and ammonia.

7,379. Adam. Filters.

8,348. Mowis. Medicine for indigestion, &c.

8,493. Watson. Medicinal preparation.

8,587. Chattock. Feeding-cakes for cattle, &c.

8,735. Tiemann. Making chemical substance from orris-root.

8,824. Newton. Basic compounds.

8,907. Browne & Guthrie. Soda crystals.

9,271. Albright & Hood. Manganese peroxide.

9,490. Meadowcroft. Aerated-water machines.

17,665. Howard. Medicine.

23,874. O'Neill. Baby's medicine-tube and scolding-teat.

1894.

1,170. Macloskey. Meat-extract.

1,806. Moxon. Healing-ointment.

2,073. Shoppee & Durham. Medicine.

3,179. Radlauer. Antipyretic and antineuralgic preparation.

**TER DIE.**—It is not always good to be curious, especially if you happen to be a hospital patient. One such was greatly concerned about what the physician wrote on the card which hung at the top of his bed. While the nurse was not watching he took down the card, and immediately set up a great hullabaloo, groaning and sobbing in a dreadful manner. The nurse came to him asking what was the matter. "Oh dear, oh dear!" was his response, "I've got to die, I've got to die!" "What is it? Do you feel worse?" asked the nurse in tender tones. "Not particular, mum, but I've got to die. The doctor has wrote it on my ticket." The poor fellow had so interpreted "ter die," and it was difficult to calm his fears.

## PHARMACY AT GIBRALTAR.

By S. M. BURROUGHS.

PHARMACY is well represented at Gibraltar, and I doubt if there is any town of 23,000 inhabitants in Europe which has so many well-stocked pharmacies, and which do so extensive a trade. The town is very healthy, the death-rate at the present time being only 16 per 1,000. This is owing to a remarkably salubrious climate, and improved public sanitation.

The streets are as clean as in the best regulated cities, with pavements that London and Paris would be proud of. They would not, however, be so proud of the formation of the principal street, which is much narrower in places than is necessary. Those who are engaged in the "vacant lot industry," are the chief barriers to widening and straightening the streets; they hold out for high compensation in the absence of taxation of their "industry."

The main street, near Mr. Roberts's pharmacy, is thus barely wide enough for two carriages to pass, while the side



walk is narrowed to the width of the kerbstone, where the walls of a vacant lot crowd upon the footpath.

The pharmacy occupies the entire ground floor of one of the best buildings in Gibraltar, erected on Government land by the founder of the pharmacy, Dr. Roberts, whose son has so worthily succeeded that pioneer of medicine and pharmacy at "The Rock." The pharmacy is as thoroughly English as if built and conducted in the "Home" country. There are the large ornamental jars in the window, the long counter and show-cases filled with all the good things to be found in a chemist's shop in England, with handsome tablets and show-cards of the leading English manufactures. At the side of the pharmacy is a fine garden—now blossoming out with roses, trumpet lilies, Cape aloes and geraniums, fragrant with heliotrope, cistus and eucalyptus, and shaded with large palms, pepper-trees, and acacias.

Mr. Roberts has, as a family relic, the indentures of his father, who served his apprenticeship to a Gibraltar doctor. The doctor promises to teach his pupil all the knowledge and art which he possesses, and his pupil is bound, among other things, not to be out later than nine o'clock in the evening.

The ancient massive city gates, of stone, are a few rods

down the street, bearing the Spanish and Moorish arms, as well as those of their successors. There is also preserved in a wall near by, a still more ancient Moorish gateway of beautiful design in stone-carving.

The adjacent lofty stone walls are partly covered with the wide-spreading ivy, vine, and the large purple blossoms of the Bourgainville creeper making the walls look peaceful and beautiful, and to almost stop the mouths of the cannon.

The art of peace has replaced that of war also in the moat, for the water is drained away, and there is a wide garden following the angles of the redoubts, where, sheltered from the wind and enjoying the morning sun, are large yellow and white roses, and golden cistus, with borders of red-blossomed Cape aloes and geraniums. The small branches of the almond-trees are covered now with pink blossoms, and blue periwinkles peer from thick masses of glossy foliage. The sago palm and the date-palm lift high their graceful plumage, and clusters of half-ripened fruit before the embrasures at the top of the walls, like Nature's arbitrators for peace; for these with the tall eucalyptus trees would prevent the gunners from taking aim.

The garrison are safe enough, for Gibraltar is practically impregnable, with a perpendicular rock of 1,500 feet on the land side, and granite walls within walls and moats towards the sea and harbour.

Roberts's pharmacy is one of the parent institutions of Gibraltar, and Mr. Roberts is a prominent public man in Gibraltar, and a Provincial Grand Master in the Masonic fraternity where, as in his private life, he is esteemed by all for his kindly interest in promoting the general goodwill and well-being of the community.

Large and varied stocks of goods are necessarily kept, for Gibraltar is an important trade-centre, not only for Europeans, but for the world. Every important nation has its consulate at Gibraltar, and Norway and Sweden, though under the same Government, have separate consuls.

The number of Norwegian vessels and seamen visiting Gibraltar is greater than those of any country of similar size or population. Most of the naval ships in the world are likely at one time or another to call at "Gib.," and two years since, during the rebellion near Tangier, large fleets from England, France, Spain, Germany and Italy found anchorage in one port or the other. The harbour of Gibraltar is protected by its huge rock from east winds, and Tangier by its hills and mountains from the west. As they are only thirty miles apart, a safe anchorage can be found in one or the other in any weather.

Among the lines of steamers calling at Gibraltar are the P. & O., Orient, German Lloyd's, and Hamburg American; the Florio (Italian), Messageries Martimes (French), and several Spanish and other lines.

The Gibraltar pharmacist has customers, therefore, from the ends of the earth, as well as among his fellow townsmen, of varied nationalities.

In the same day or hour there may be in the pharmacy English residents and travellers asking for any of their favourite medicines or toilet articles, or a dozen Americans at a time, from the steamers, wanting supplies of wintergreen tooth-powder, sozodont, distilled witch-hazel, Ayer's or Hood's sarsaparilla and little liver-pills, or with prescriptions for the compressed and other handy forms of medicines so much in vogue in the States. The Frenchman will have his medicines and toilet-preparations with the talismanic address, "Paris," upon them. I observed this year ago in New Orleans among the Creoles, the descendants of the early French settlers in Louisiana, before it was ceded to the States. Some of them are the children of Acadians expatriated from Canada on its conquest by the English. The French pharmacies of New Orleans were supplying French specialities to the third and fourth generation—to people who had never been to France, but had imbibed from their ancestors a belief that no doctors were so scientific as those with the M.D. of Paris, and no pharmaceutical preparations so elegant and reliable as those from La Belle France. That there is reason for this prejudice may be conceded. It was French savants who discovered many of the most valuable alkaloids, and French pharmacists were the first to prepare pepsin, sugar-coated pills, gelatine capsules, dialysed iron, jujubes containing gelatine, and such elegant liquids as Aubergier's syrup of lactucarium, and various preparations of beef, iron, quinine, &c.

The French protective system has secured to local manufacturers the home market, but the active competition in free trade England is securing for London a good share of the increase in export trade, which was once monopolised by Paris.

Although there is a large Spanish population in Gibraltar, but few Spanish chemical and pharmaceutical goods are sold. The high cost of materials in Spain, owing to an exorbitant tariff, makes goods so dear that Spanish manufacturers cannot compete with English goods abroad and barely do so in their own country.

The water supply of Gibraltar is entirely dependent on the rains. The water is stored in large cisterns which are cleaned regularly. Salt water is used for sprinkling the streets, and the drains are also flushed with salt water three times a day.

This season has been unusually dry, with only about 16 ins. to date. At the same time, two years ago, while I was there, we used to have a downpour nearly every day, and the rainfall from January to April 1 was 50 inches.

Among other popular pharmacies in Gibraltar are those of Patron, Garibaldi, Dr. Triay, and others, all of them, by the way, subscribers to THE CHEMIST AND DRUGGIST, in which they manifest the greatest interest both as regards its literary and its advertising sections.

#### THE EASTWARD-BOUND PHARMACIST.

BY W. MAIR, CALCUTTA.

I WONDER how many readers of THE CHEMIST AND DRUGGIST have not at some time or other, as they scanned their "Supplement," cast longing eyes towards what seems some Eastern El Dorado somewhere away outside their present little spheres; how many have found those little "ads." that appear from week to week the precursors of new eras in their lives and their introduction to the bigger world of pharmacy. It would be an interesting speculation, too, to find how many important appointments abroad—professorships, lectureships, and responsible Government and civil posts—are filled by men recruited originally from the ranks by that far-reaching agency.

A voyage eastwards by P. & O. some time ago gave me the opportunity of making some inquiries, the result of which may be of interest to those of your readers who contemplate going abroad.

#### GIBRALTAR.

The difference between English and foreign pharmacy is not so marked just here. It is only 1,349 miles from London. The pretty white houses and their luxurious gardens have a decidedly Oriental aspect, and one feels that the picturesque Moors or the swarthy natives of Spain must lend interest and variety to one's customers. Mr. W. F. Roberts's is the principal English pharmacy. The business is chiefly with the large European community resident within the great fort, the numerous Moorish, Spanish, Danish, Italian, French, and German apothecaries catering for the rest of the 25,000 or so of the population. The extensive dispensing is unusually varied, due to the central position of Gibraltar as a port of call for visitors from all parts of the world, while the increasing popularity of a ten days' run by P. & O. to Gibraltar brings many of that class, beloved of the pharmacist, whose prescriptions are as sacred to them as their wills. Mr. Joachim Angelo Garibaldi, is a Muter's man and an A.P.S., and has a tidy little pharmacy, with a tidy little business, in the best part of the town. Mr. Garibaldi is a loyal supporter of the Pharmaceutical Society, and regrets exceedingly that that august body does not extend its jurisdiction to Gibraltar. It is remarkable that although it is so thoroughly British, Government takes no cognisance of pharmacy whatever anybody is at liberty to practise it. The Spanish Legation enforces a wholesome restriction in all its territory, and in Portugal a similar arrangement obtains. As it is, when I was there a "Universal Pharmacy" was being opened by an Italian who had not as yet hung out any notice of his qualifications. This place was a novelty in its way, being got up, as the proprietor told me, entirely on the lines of an Italian pharmacy. The jars and bottles are of Barcelona ware, beautifully decorated by hand in colours and gilt, and the

high white marble counter has a splendid French marble front. The full equivalents of English prices are obtained for patents in Gibraltar, and there are no Stores, although the peripatetic visitors aforesaid are apt to tell Mr. Roberts sometimes that they pay this and that at the Stores in London. Mr. Gustavus A. Abrines, a Minor man and an F.C.S., used to be behind the counter, but he is now engaged as analyst to the Sanitary Commission of Gibraltar. He showed me his well-appointed laboratory opening into the charming gardens of the Government offices, gorgeous with a profusion of laburnum, myrtle, orange, and oleander trees in blossom, and I would have liked to have got a snap-shot for the C. & D., notwithstanding that the camera is supposed to be prohibited within the city walls, but circumstances were not altogether propitious. The other dispensaries are Dr. Patron's, Dr. Triay's and Guillem & Roscelli's, in Waterport Street, and Lyon's, in Sandhill. There are very few appointments for English assistants at Gibraltar, and I should think life there is rather monotonous outside military circles.

#### MALTA.

There are in all about twenty chemists in Valetta, the little peninsula which constitutes the Malta of the globetrotter. Pharmacy law is much more in evidence here than in Gibraltar. No one may practise as an apothecary in the island of Malta without a municipal or Board of Health warrant, and the candidate must show a certificate of having attended a course of medical instruction at a university and three years' practice in a pharmacy. The simplest poisons—salt of sorrel, sugar of lead, &c.—are not sold without a register of the name of the purchaser—not in a perfunctory fashion, but under the direct jurisdiction of the police authorities, who examine the books at stated intervals. Laudanum is not sold without a medical certificate, and opium is seldom or never sold. The same wholesome authority is exercised by the police over the stock, which is inspected periodically. There is plenty of good dispensing, especially in the winter, and doctors do not dispense—they are not allowed. Many will think there is something Utopian about these laws—and there is no pharmaceutical society in Malta.

Mizzi's was the handsomest dispensary I visited. It is very prettily fitted, and the stock is mostly English, although



French and German houses are evidently finding good markets here. Kingston's pharmacy, in the Strada Reale, is a spacious, handsome shop, where an excellent business is done with the large European community. It is closed from 1 to 3 P.M. during the summer months, in common with many of the more independent businesses here. Among others of the more important chemists' businesses are Messrs. Collis & Williams, the Economical British Dispensary, the British Dispensary, Dr. Fab Borg's, the English Dispensary, Speranza's, and others. There are several good appointments for English chemists in the best of the establishments named.

## BRINDISI.

I did not see much of Italian pharmacy, for that of Brindisi, notwithstanding that it is a very important mail station, is not representative. There are two classes of pharmacists—the druggist, who can sell medicines only, and the pharmacist, who may dispense prescriptions. The manufacture of quack medicines is prohibited, and no one may formulate any preparation without declaring its composition to the Minister who takes charge of this department of Italian law. A certificate of proficiency is also required from the University of Naples, and there is supposed to be a Government inspection of stock every six months. But away down in sunny Italy, as far as Brindisi, the three or four druggists I managed to find, with some difficulty, in the back streets are evidently not overburdened by Governmental supervision. They do not seem to be overburdened with anything, business included; they keep open all Sunday, and keep some English and French patents, chief among which seemed to be the "Injection Brou."

## PORT SAID.

It was at Port Said that I found myself more at sea than ever I did in the art of interviewing. It was not an "English pharmacy" certainly, as nearly all the native shops are styled, but I ventured to waken the proprietor—an ancient Greek—hoping that perchance I might gather from him some information in furtherance of my mission. But he was not to be drawn, or perhaps I was not the man to draw him, for I could not get him to understand a word I said. I tried what little I remembered of my "De Bello Gallico," but that was a failure. I have an open sesame—I sometimes use it as an introduction—*i.e.*, I buy a seidlitz powder; but I failed, even in my proffered patronage, to make friends with the patriarch. As for the shop, if ever I saw "a beggarly array of empty"—but I think the *C. & D.* has surely printed these lines before. There are better representatives of the profession than this in Port Said—one on English lines, another French, and another Italian—six in all. There is no Egyptian pharmacy law.

## COLOMBO.

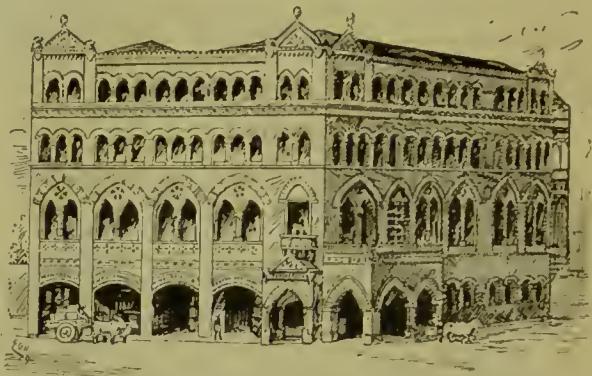
There are three great drug-concerns in Colombo—the Apothecaries' Company, Messrs. Cargill & Co., and Messrs. Niel S. Campbell & Co. They are the great "Universal Providers" of Ceylon, and their pharmaceutical departments are small in comparison with some of the other branches of their great businesses. The Apothecaries' Company certainly grew out of what is now its dispensing department, but anything can be bought there now, from a bicycle built for two to a safety pin. Three European assistants are kept, who do night duty and Sundays in turn. Large businesses are done at each of these three establishments, which are all conducted on similar lines, Messrs. Cargill's chief feature being their extensive drapery line. Good prices are obtained—nothing is sold under 12c., the smallest silver coin—and from the annual report recently published in these columns, it appeared that the drug department paid best—usually 10 per cent. The hours of business are from 8 to 5 (Saturdays 8 to 3), and the salaries are fairly liberal, 200r. to 250r. per month, and free-quarters, but a rupee is only equivalent to about a shilling now. Anyone coming to Colombo will find it very slow and very dull, with little of interest and less that is entertaining or edifying. Burgoynes do a good deal of the wholesale business, as they do all over India and Ceylon. I was pleased to notice that Messrs. Burroughs, Wellcome & Co. have evidently made good friends with everybody, judging from the stocks held of their elegant specialities, and better still with the public, judging from the demand. There is no Juggernaut of a patent-medicine stamp here, and the man of pills may lay it on as he will, the gentle Singalese being particularly gullible. The moist atmosphere of these swampy regions, the spicy breezes notwithstanding, is a prolific source of consumption, asthma, and the like, and Kepler's Malt and Oil and Scott's Emulsion are staple imports. I had the pleasure of visiting Mr. Richard Paulauz, apothecary to the well-appointed General Hospital and lecturer in the Ceylon Medical School, and I could have wished to have given ever so brief a notice, but the editor will already have begun the lopping-off process.

## STRAITS SETTLEMENTS.

At Penang there are three chemists to a population of something like 80,000—British, Malays, Tamils, Chinese, Dutch, German, &c. This seems to show a large constituency for each, but a great proportion of these people are treated gratis at one or other of the large hospitals. Government servants in receipt of good salaries get most of their advice and medicine free from the General Hospital. Messrs. Maynard & Co., of the Singapore Medical Hall, employ six assistants, who speak the various European languages—German, Dutch, &c.—that are required with such a mixed clientele. These appointments are well remunerated, and some chemists have gained good experience in them.

## INDIA.

The Oriental Empire of her Majesty was my ultimate destination. There is something very broad and very large about pharmacy as it is conducted in the large cities of India. Messrs. Treacher & Co., of Bombay, are another



Whiteleys, and Messrs. Kemp & Co. are well known as the largest importers of drugs on the western side of India. There is a tendency all over India to associate pharmacy with other branches of business—there is one firm of chemists in Meerut, Messrs. Howard & Co., who run an auction-mart, a printing-press, and a brush-factory among other details. One of their advertisements lately ran thus:—"For sale, a perambulator, a fine cow, and a lot of babies' feeding-bottles." This complex arrangement is, of course, a great convenience for up-country people, who have to send to the big centres for all their wants. In

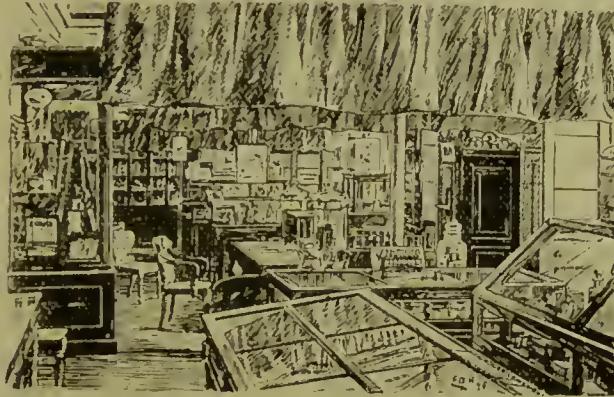
## CALCUTTA

the three principal firms are Messrs. Smith, Stanistreet & Co., Messrs. Bathgate & Co., and Messrs. R. Scott Thomson & Co. (Limited), all of whom confine themselves to the pharmaceutical. Messrs. Smith, Stanistreet & Co., Dalhousie



Square, of whose premises I give a sketch, have the largest business and employ six European assistants; their complete staff numbers some 200 hands, and their business comprises aerated water and other departments. They have the nicest situation, too, the Dalhousie Square gardens reminding me of a part of Princes' Street gardens, Edinburgh, only in place of a black, surging sea of railways Calcutta provides a

pretty artificial lake. Messrs. Bathgate & Co.'s head establishment in Old Court House Street is spacious and elegant. Mr. S. V. Morgan, of THE CHEMIST AND DRUGGIST, in the course of his tour round the world, wrote of Messrs. Bathgate's that it was the prettiest pharmacy in India. The spacious main hall (it is not called the shop) of the large Indian pharmacies is not decorated with the interminable array of shop-hottles and ointment-pots that are conventional at home—these will not sell—but with well-fitted showcases, while other cases are ranged, museum fashion, on the usually marble floor and in the centre a marble-topped table (there is no counter), at which either one or two assistants sit at the receipt of custom. The sketch of the interior—or, rather, of about half of it—of



Messrs. Smith, Stanistrect & Co.'s will show the general arrangement. The *punkahs* or large fans hung overhead, which are kept continually swinging in the very hot weather, are a peculiarly Indian luxury, but they make life at 100° F. fairly possible. The dispensary is usually a large room adjoining, presided over by another assistant, while the actual dispensing is done by the dozen or so of certificated native compounders, who are assisted by another dozen uncertificated ones. The business, wholesale as well as retail, got through in these establishments may be correctly described as enormous, and prices are equal to the best London standard. "Cutting" is unknown—prices are raised with every fall in the rupee—although returns are not so good as when the rupee was worth double its present value. If the medicine-swallowing propensities of the nations were to be tabulated and compared, the people of India would certainly take the lead, and pharmacy benefits accordingly. There is no patent-medicine stamp and no Act prohibiting the use of such valuable phrases as "nervous debility," "loss of vitality," and a lot more, so that with a good line of specialities fortune-making becomes a very simple problem. Then now and again a Maharajah or native prince gives an order for 400r. or 500r., which really makes a good impression on a day's business. The larger firms in the great Indian cities devote considerable attention to surgical instruments. A resident physician—usually a partner—is always attached to the staff. European assistants coming out to India will find the change of experience of considerable value, while a few years' residence in India is an education in itself.

**THE SECRET OF POND'S EXTRACT.**—The *Homeopathic Envoy* tells this story:—"One day a gentleman entered Dr. Hering's office and introduced himself as 'Dr. Pond,' manufacturer of 'Pond's Extract.' 'An excellent remedy,' commented the great Hering, who was not afraid of new things. 'How is it made?' 'That's my secret,' slyly replied Dr. Pond, and then began to talk of his own ills, concerning which he had called. Hering made a very thoughtful examination, and Pond asked, 'Can you cure me?' 'Oh, yes,' was the cheerful reply, 'easily.' Pond was relieved, for he was a very sick man, and he asked, 'What shall I do?' 'That's my secret,' coolly replied Hering. Then the patent-medicine doctor saw the point, and came down, and Hering learned, what he probably suspected, that 'Pond's extract' was simply another name for hamamelis, or witch hazel, an excellent remedy first heard of from the Indians of North America."

## Wills of Deceased Chemists.

The will of Mr. George Walker, chemist and druggist, of 91 Myrtle Street, Liverpool, who died on April 23, 1894, has been proved, at the District Probate Registry, by Mrs. Mary Wiswold Walker, the testator's widow, and sole executrix, by whom the gross value was sworn at 903l. 13s. 2d., the net value being 676l. 3s. 11d.

The will of Mr. Alexander Stewart, late of 34 Argyle Street, Birkenhead, chemist and druggist, who died on March 20, 1893, has been proved at Chester Probate Registry by Mrs. Elizabeth Stewart, the widow and sole executrix of the testator. The gross value of the personal estate amounted to 361l. 14s. 3d., and the net value chargeable for probate to 246l. 5s. 10d.

The will of Mr. John Rees, chemist and druggist, of Commercial Street, Maesteg, Glamorganshire, who died on February 8, 1894, has been proved at the Principal Probate Registry, London, by Mr. Thos. Major Jones, of Aberavon, and Mr. Rees Griffiths, of Brynmawr Farm, Maesteg, the executors named therein, by whom the value of the testator's personal estate and effects has been sworn at 620l.

The will of Mr. Richard Mullock, of 1 Rock Lane East, Rock Ferry, Chester, chemist and druggist, who died on June 28, 1893, has been proved, at Chester Probate Registry, by Mr. G. R. Griffith, of Chester, printer, and Mr. Richard Arthur Mullock, Lodmore Lodge, Rock Ferry, solicitor, son of the deceased, the executors named therein. The gross value of the personal estate amounted to 1,436l. 5s. 8d., and the net value to 1,127l. 6s. 6d.

The will of Mr. Rhodes Bramwell, of Selborne Street, Liverpool, retired chemist and druggist, who died on December 9, 1893, has been proved, at the District Probate Registry, by Messrs. George Bramwell, of Beaconsfield Street, Liverpool, and Edward Bramwell, of Ethersall Huyton, the brothers and executors of the testator. The gross value of the personal estate was sworn at 4,650l. 16s. 9d., the net value amounting to 4,596l. 7s. 3d.

The late Mr. Alexander Hemingway, of 20 and 21 Portman Street, chemist, having died on April 27, a widower, and intestate, letters of administration to his personal estate have been granted to Mr. Edward Hemingway and Mr. Walter Hemingway, chemists, of 20 and 21 Portman Street, sons of the deceased, by whom the gross value of the personality was sworn at 2,313l. 15s. 9d., the net value being 1,584l. 18s. 5d., and the stamp-charge 48l.

The will of Mr. John Sadlier, chemist and druggist formerly of 10 Northgate Street, but latterly of 104 London Road, Gloucester, has been proved at the District Probate Registry. The testator died on April 26, having appointed his wife, Mrs. Mary Ann Sadlier, his sole executrix. To her administration has been granted. The gross value of deceased's personal estate and effects was sworn at 1,170l. 15s. 1d., and the net value at 1,136l. 10s. 1d.

The will of Mr. John Chatwin Mott, of Lynton Villa, Birchfield, Handsworth, drug warehouseman, who died on January 21, 1894, has been proved at Lichfield Probate Registry, on July 14, by Mr. William Mott, of Lynton Villa, druggist, the son and acting executor of the testator: power being reserved to make a like grant to Miss Ann Coe, the executrix named in the said will. The gross value of the personal estate was sworn at 1,029l. 7s. 6d., the net value being 885l. 18s. 10d.

The will of Mr. Cornelius Williams, chemist and druggist, of Pembroke Dock, in the county of Pembroke, has been proved at the Principal Probate Registry, London. The testator, who died on January 15, 1894, appointed his sister, Miss Mary Jane Williams, and his son, Mr. Richard Henry Williams, physician and surgeon, executors of his will. To the latter administration has been granted, power to prove hereafter being reserved to Miss Williams. The gross value of the personal estate and effects of the testator amounts to 1,804l. 15s., and the net value to 1,356l. 12s. 8d., upon which latter sum a stamp duty of 42l. is chargeable.



**Notice to Retail Buyers:**—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable even for manufacturing purposes.

*It should also be recollect that for many articles the range of quality is very wide.*

42 CANNON STREET, E.C., July 25.

### The American Market.

Our New York correspondent, writing on July 11, observes that the new half-year does not open under very brilliant auspices for the business interests of the country, although the progress made by Congress with the Tariff Bill inspires more confidence, and there is every prospect that it will now be pushed to a speedy settlement. *Acetate of lime* is slightly higher, due to a reduced output by manufacturers. Brown is now held at 95c. to \$1; and grey, \$1.65 to \$1.70. *Citric acid* has been reduced  $\frac{1}{2}$ c. per lb. by domestic makers to 40c. in barrels, and  $40\frac{1}{2}$ c. in kegs. Foreign goods have been practically out of the market for some time, the present duty of 10c. per lb. proving prohibitory on the basis of foreign values. *Alcohol*: A further advance of 4c. per gallon has been announced by the Trust, \$2.28 to \$2.32 being now the quoted range. Independent distillers have also taken advantage of the opportunity, and advanced prices to \$2.9 to \$2.13 per gallon. *Balsam copaiba* is coming to hand more freely, and first-hands show less firmness. Central American is quoted at 32c. to  $32\frac{1}{2}$ c.; Para at 34c. to 35c.; and Angostura at 37c. to 38c. *Balsam fir (Canada)* is dull, and there is little doing except in a jobbing way at \$2.10 per gallon in barrels. *Beeswax*: The export demand has subsided somewhat, and prices show an easier tendency. Bright Cuban is offered at 27c.; and domestic can be had at  $27\frac{1}{2}$ c. to 28c. *Carmine*: \$40. There are rumours afloat of a probable adjustment of differences among the various manufacturers, though nothing definite is yet reported. Prices remain unaltered at \$2 per lb. in bulk and \$2.10 in 1-lb. packages. *Castoreum* is urged for sale with easier prices at \$14 and \$13.50 in the North-West. The article appears to be in better supply. *Canary-seed (Smyrna)*: This market has further advanced under the stimulus of continued strong reports from primary markets, latest Smyrna advices quoting equivalent to  $2\frac{1}{2}$ c. laid down here. The present stock in this market is estimated at only 3,000 bags, or about one month's supply. *Elder flowers* are about out of the market, and 38c. to 40c. is quoted for the limited quantities obtainable. *Gum acacia*: Continued reports of higher prices at primary sources have influenced a higher range of values among holders here, who now ask 10 $\frac{1}{2}$ c. to 11 $\frac{1}{2}$ c. for sorts. Senegal siftings are held at 7 $\frac{1}{2}$ c. to 8c. *Jalap* is slow of sale, there being no apparent demand at the moment; holders are however firm in their views and are not disposed to make concessions; 17 $\frac{1}{2}$ c. to 18c. is still the quoted value. *Japan wax* is again lower owing to continued heavy arrivals here; 6 $\frac{1}{2}$ c. is quoted, and for jobbing requirements 6 $\frac{1}{2}$ c. to 6 $\frac{3}{4}$ c. is asked. *Lycepodium* declined to 50c. to 51c., for Pollitz's brand 53c. to 54c. is quoted. *Oil of Citronella* shows considerable strength in spite of recent heavy arrivals, and is quoted at 22 $\frac{1}{2}$ c. to 24c. The *Paul Revere* from Colombo brought 55 drums and 70 cases, and the *Europe* from London had 8 drums and 35 cases. *Oil (Cod-liver)*: *Norwegian* is lacking of demand, and prices show no signs of improvement. The *Prussia* has arrived from Hamburg with 75 barrels. *Opium*: Cables from Smyrna soliciting bids of 7s. 6d., have had a depressing effect on holders here; there

was little difficulty in bringing about the reaction, there being an apparent lack of confidence, and the market loses heart at the very suggestion of lower prices; sales have been made to-day at \$1.90 cash, which is the lowest quotation named for additional parcels. *Sarsaparilla (Mexican)*: The *Concho* came to hand with upwards of 70 hales, which are still unsold; 8½c. would be acceptable, but buyers are not in the market for supplies at that figure, there is still a good demand for export and domestic trade. *Serpentaria Root* has been reduced to 25c. by one holder; the sincerity of the quotation is questioned, as it is thought that the parties could not supply any considerable quantity at the above named price. *Spermaceti*: The *Russia* for Hamburg took out 130 caskets, which includes most of the second-hand stock held below refiners' prices; a limited quantity is still to be had at 29½c., though 30c. is generally asked. *Vanilla Beans (Mexican)*: At public sale yesterday 2,000 lbs. of cut brought \$5 per lb. *Camphor (Japan)* in oz. blocks has been reduced to 36c., and Simes' compressed camphor is also 1c. lower, it being now quoted at 35c. per lb. in oz. cakes.

## The Chinese-Japanese Quarrel and the Drug-trade.

Perhaps the principal event in the drug-market this week has been the attempt of parties interested in the importation of Chinese and Japanese drugs to make capital out of the alleged outbreak of hostilities in the far East by raising the prices of their goods. The principal drugs exported from China to Europe are rhubarb, star-anise, cassia and anise oils, galls, and camphor; from Japan, camphor, peppermint oil, menthol, galls, vegetable wax, and antimony. The chief ports from which this trade is carried on are Shanghai, Canton, Macao (Portuguese), and Hong-Kong (British), in China, and Hiogo, Osaka, and Yokohama, in Japan. Even assuming that the hostilities should become serious and a prolonged conflict ensue, it is wildly improbable that Japanese foreign trade would be interfered with to any appreciable degree; while, as far as Chinese goods are concerned, the trade from the Southern provinces, whence most of the drugs that enter European commerce are derived, would probably continue much as before. The one drug of which there is a reasonable chance that the supply may be temporarily checked is Chinese camphor, which is obtained from the island of Formosa. That island happens to be the place which furnishes China with most of her coal-supply, and its occupation by Japan is, therefore, not altogether impossible. Some ten years ago, when France and China went to war, Formosa was the first point seized by the French. The possibility of another foreign occupation this time is probably the reason why Formosa camphor has already advanced out of proportion to other Chinese goods, although, as a matter of fact, that advance at present remains entirely nominal, no business being possible at the increased quotations.

### The Opium Crop.

A correspondent in Asia Minor sends us the following statistics of the result of the opium crop of the present season, in the different opium-growing "vilayets" or provinces, made up according to the latest estimates, for the carefulness of which he vouches:—

	Baskets or couffes
1. Vilayets of Salonica, Kossova, and Monastir (the quantity actually harvested is 1,300 cases of 50 okns each, being in Smyrna weight of baskets averaging 60 okns) .. . . . .	1,100
2. Vilayet of Iludavendighiar (comprising Karahissar, Guev�, Yenicheir, Ballukkessar, Bogaditchi, &c.) .. . . . .	1,800
3. Vilayet of Aidin .. . . . .	900
4. " Koniah .. . . . .	1,800
5. " Angora .. . . . .	450
6. " Sivas .. . . . .	500
7. Vilayets of Mannifret, Ul-Aziz, and Kekban (comprising Malatea and Kharput) .. . . . .	300
Total .. . . . .	6,850

of which 80 per cent. are already harvested and basketed.

**The Sampling of Cinchona-bark in Amsterdam.**

We are indebted to Mr. J. de Ligt, of Amsterdam, for a copy of a circular which, in conjunction with three other cinchona-brokers, he has issued on the subject of the sampling of Java bark. We recently called attention to the fact that the Amsterdam brokers have decided to revert to the old system of sampling. It now appears that buyers will in future be free to draw samples on any system they choose, and that, if they like, they may take their sample for analysis from the centre of the bales, or one-third part from the centre, one-third part from the top, and one-third from the bottom of the bale. The custom to place the bales for sampling purposes top and bottom in alternating numbers will be adhered to.

**ACID (CITRIC).**—Steady at 1s. 2 $\frac{1}{2}$ d. to 1s. 3d. per lb. for B.P. quality from the English makers.

**ACID (OXALIC).**—Still costs 3 $\frac{1}{2}$ d. per lb. net on rail in London.

**ACID (TARTARIC).**—Unaltered, English from the makers at 10 $\frac{1}{4}$ d. to 11d. per lb. Foreign 10 $\frac{1}{2}$ d. per lb.

**ANTIMONY.**—Crude Japanese, which has been very neglected and was offered as low as 19*l.* per ton, has risen a little in consequence of the political disturbance in the East, and is now quoted at 19*l.* 10*s.* per ton.

**ARSENIC.**—Continues to be in fair demand, and the quotation for best white powder is still 14*l.* 10*s.* ex-ship, and 14*l.* 15*s.* from the wharf. Attempts are made, however, to break the market by quoting lower rates, but it remains doubtful whether they will be successful.

**BELLADONNA.**—The new extract of German helladonna leaves is now being offered. The quality is said to be particularly good this season; 3*s.* per lb. is the price asked.

**BLEACHING-POWDER** firmly held, at 8*l.* 5*s.* on the spot, 7*l.* 10*s.* f.o.b. in Liverpool, and 7*l.* 5*s.* f.o.b. on the Tyne.

**BORAX.**—Owing to persistent underselling of outside makers the combination have this week reduced their price by 20*s.* all round, their present quotation being: borax in crystals 21*s.* 6*d.*, ditto powder 22*s.* 6*d.*, boracic acid in crystals 31*s.* 6*d.*, ditto in powder 33*s.* 6*d.* per cwt. It is expected that there will be a further slight reduction shortly.

**BROMINE SALTS.**—On Tuesday the British manufacturers reduced their quotations for *Bromine salts* by 1*d.* per lb. all round. The reduced prices are as follows:—

	Under 1 cwt.	1 to 10 cwt.	10 cwt. or more
Bromide of potassium ..	Per lb. 1s. 8 $\frac{1}{2}$ d.	Per lb. 1s. 8d.	Per lb. 1s. 7 $\frac{1}{2}$ d.
" ammonium ..	2s. 0 $\frac{1}{2}$ d.	2s.	—
" sodium ..	2s. 0 $\frac{1}{2}$ d.	2s.	—

The reduction is confined to the preparations of the English manufacturers, who have all along been slightly dearer than their continental colleagues, and who have resorted to this move in order to meet competition from outside the syndicate. We are informed, however, that the outside manufacturers will reduce their prices in proportion.

**CAMPHOR (CRUDE).**—During the last four or five days quotations have rapidly advanced, and to-day owners ask 80*s.* per cwt., c.i.f. terms, for Formosa (China camphor) July-August shipment. On the spot there are no sellers of this variety. A small lot of about 15 tuhs Japan camphor is being offered at 100*s.* per cwt. on the spot, but the principal holders do not care to quote. For shipment there are no quotations at present. The rise is entirely due to the warlike news from the East, but it is exceedingly doubtful whether, even if the hostilities should become serious, the trade will really be much interfered with. To-day it is stated that 80*s.*, c.i.f., has been paid for Formosa camphor, July-August shipment, and that there are further buyers at that price.

**CAMPHOR (REFINED).**—In sympathy with the strong advance in crude camphor the refiners have all withdrawn their quotations from the market. The lowest price for

English bells, in  $\frac{1}{2}$ -ton lots, was 1*s.* 3*d.*, but to-day everybody refuses to quote.

**CANARY-SEED.**—The present quotations are: *Turkish* seed, 52*s.* 6*d.* to 55*s.*; *Moroccan*, according to quality, from 53*s.* 6*d.* to 60*s.*; *Spanish*, at 65*s.* to 70*s.* per 464 lbs. *Dutch* seed is quoted at from 53*s.* to 56*s.* per 464 lbs., but there is very little of it on offer.

**CARAWAY.**—New *Dutch* caraway-seed is already upon the market, but the quality is reported to be below the average of last year's. New crop is offering at 27*s.* to 29*s.* per cwt., London terms.

**CAUSTIC SODA.**—Market dull. On the spot 70 per cent. is quoted at 9*l.* to 9*l.* 5*s.*, and in Liverpool at 9*l.*, but "outside" makers are offering there at 8*l.* 10*s.*. The Tyne quotation for 70 per cent. is 8*l.* 15*s.*, for 76 per cent. 10*l.* 5*s.* per ton.

**CHAMOMILES.**—The Belgian flowers are said to promise a very good crop. Gathering has been postponed on account of the heavy rain, but is now about to commence; best new flowers to be shipped as soon as gathered are being offered at 75*s.* per cwt. this week.

**CHLORATE OF POTASH.**—Very weak indeed; in Liverpool there are offers at 6 $\frac{1}{2}$ d. per lb. f.o.b., and in London 6 $\frac{1}{2}$ d. per lb. is asked: these low spot-quotations prevent business for delivery, and there are practically no quotations in the position. Foreign brands offer at 5 $\frac{1}{2}$ d. per lb., c.i.f. terms.

**CINCHONA.**—At Tuesday's auctions the supply of bark was very moderate. Seven brokers participated, their catalogues showing the following totals:—

	Packages	Packages
Ceylon cinchona ..	460 of which 412 were sold	
East Indian cinchona ..	376 "	376 "
Javan cinchona ..	90 "	" "
West African cinchona ..	383 "	333 "
South American cinchona ..	56 "	" "
Cuprea bark ..	440 "	" "
	1,805	1,171

To all appearance the sales were dull, but a very firm undertone existed, and nearly all the East Indian barks sold at firm prices, the unit averaging between  $\frac{1}{2}$ d. and 1d. per lb. The following are the approximate quantities of bark purchased by the various buyers:—

	Lbs.
Agents for the Frankfort-on-Main and Stuttgart works ..	67,670
Messrs. Howards & Sons ..	53,760
Agents for the Brunswick factory ..	36,990
Agents for the Auerbach factory ..	16,316
Agents for the Mannheim factory ..	13,800
Agents for the Paris factory ..	1,940
Druggists and speculators ..	38,466
Total quantity of bark sold ..	228,942
Bought in or withdrawn ..	101,040
Total quantity of bark offered ..	329,932

It should be remembered that the quantity of bark bought affords no indication of the amount of sulphate of quinine represented by the purchase.

The following prices were paid for sound bark:—

**CEYLON CINCHONA.**—Original—Red varieties: Ordinary to good bright quilly stem and branch chips, 1 $\frac{1}{2}$ d. to 1 $\frac{1}{2}$ d.; stem shavings, 1d. to 1 $\frac{1}{2}$ d.; quill, 2d.; broken quill, 1 $\frac{1}{2}$ d. per lb. Grey varieties: Root, 2d.; dull and broken quill, 1 $\frac{1}{2}$ d. to 2d.; shavings, 2 $\frac{1}{2}$ d.; stem chips, 1d. to 1 $\frac{1}{2}$ d. per lb. Yellow chips, 4 $\frac{1}{2}$ d. to 5d. per lb. Renewed—Red varieties: Ordinary to good bright stem chips, 1 $\frac{1}{2}$ d. to 2 $\frac{1}{2}$ d.; shavings, 1d. to 3 $\frac{1}{2}$ d. per lb. Grey varieties: Fair to good bright stem and branch chips, 2 $\frac{1}{2}$ d. to 3 $\frac{1}{2}$ d.; shavings, 4 $\frac{1}{2}$ d. to 4 $\frac{1}{2}$ d. per lb.

**EAST INDIAN CINCHONA.**—Original—Red varieties: Root, 1 $\frac{1}{2}$ d.; dull to good bright stem and branch chips, 1 $\frac{1}{2}$ d. to 1 $\frac{1}{2}$ d.; broken quill, 1 $\frac{1}{2}$ d. per lb. Grey chips, 1 $\frac{1}{2}$ d. to 3 $\frac{1}{2}$ d.; yellow chips, 2d. per lb.

**JAVA CINCHONA.**—An offer of 5 $\frac{1}{2}$ d. per lb. was refused for a parcel of crushed yellow bark.

**WEST AFRICAN CINCHONA.**—Several parcels, imported via Lisbon, sold at rather low prices:—Red quill, medium to

bold, partly broken, silvery mixed, at 2d. to 2½d.; split quill and bold quilly chips at 1½d. to 2½d. per lb.

**SOUTH AMERICAN CINCHONA.**—Twenty-one bales of South American cultivated Calisaya, partly imported via Hamburg, were bought in at from 4½d. to 6½d. per lb.

**CUPREA BARK.**—The slight improvement in the quinino market caused the holders of old Cuprea bark again to offer at auction 432 bales of 1882 and 1883 import. A portion of this was of fair quality, but the whole was bought in, offers of 1d. to 1½d. per lb. being refused. Of 8 bales of newly imported Cuprea bark 4 (damaged) sold at 3d. per lb.

The exports of cinchona from Java during the eleven months from July 1 to May 31 have been as follows:—

—	1890	1891	1892	1893	1894
Private plantations, Amst. lbs.	4,221,042	6,032,495	6,590,117	6,566,713	6,339,317
Government plantations, Amst. lbs.	475,699	491,325	578,845	592,248	449,224
Total ..	4,696,741	6,523,820	7,168,962	7,158,961	6,788,541

At last week's bark sales in Amsterdam the equivalent of 1,745 kilos. sulphate of quinine in the bark sold at a unit of 4c., 3,265 kilos. at 4½c., 5,615 kilos. at 4½c., and 655 kilos. at 4¾c. The druggists' barks of fine quality were in demand at full prices; inferior grades could hardly be sold at any price.

**CLOVES.**—There has been more demand for Zanzibar at better rates. For delivery August-October has sold at 2½d. to 2½d.; September-November, at 2½d. per lb. Fair quality on the spot is held for 2½d. per lb.

**COLOCYNTH.**—Good bright Turkey apple is held for 1s. 6d. per lb.

**COPPER (SULPHATE).**—Very dull of sale, at 14l. per ton in London, and from 14l. 7s. 6d. to 14l. 10s. f.o.b. Liverpool.

**CORIANDER.**—The recent bigg prices have given way somewhat, as the new-crop seed, though not yet available, is already being offered for forward delivery.

**CREAM OF TARTAR.**—Easier in consequence of the falling off in the demand. It is to-day possible to buy best white French crystals at 63s. 6d. per cwt. on the spot, while for German powder 65s. to 66s. is asked.

**CUBEBS.**—The exportation of cubebs from Java shows an enormous increase. In the eleven months between July 1 and May 31 the figures were:—

	1890	1891	1892	1893	1894
Piculs ..	1,148	1,227	1,724	2,720	3,501

**CUMIN-SEED.**—Somewhat easier, the demand having fallen away. To-day's quotations are 37s. to 44s. for good to fine sifted Maltese, 34s. to 37s. 6d. for Italian, and 29s. to 32s. per cwt. for Moroccan seed.

**GINGER** is quiet. Of 50 barrels of *Jamaica* root offered to-day, one lot of bold, but dull, sold at 71s. per cwt. Seventy one cases *Cochin* were mostly sold at 40s. 6d. to 41s. for monly to good bold rough, and 73s. 6d. per cwt. for good bold A cut.

**GUM ACACIA.**—There has been a considerably improved demand for *Ghatti* gum since the last auctions, and several hundred cases of this description have changed bands, at 22s. to 24s. per cwt. for ordinary to medium quality. Fair amber mixed *Soudan* sorts have sold in a small way at 41s. per cwt. There has lately been an arrival of 56 bales *Gehirah* gum, for which 32s. 6d. per cwt. is asked.

**INSECT FLOWERS.**—There is no alteration in the market, the prices remain practically the same as those quoted last week.

**MENTHOL.**—Firmly held at 17s. to 17s. 6d. per lb. on the spot.

**OILS (ESSENTIAL).**—Japanese *Oil of peppermint* remains unaltered, but the market is firm at 11s. to 11s. 3d. per lb. for 40-per-cent oil, and 10s. to 10s. 3d. per lb. for dementhio-lised. *Oil of star anise* has advanced: 6s. 10d. is reported to have been paid on the spot already, and it is certainly im-

possible to buy below that figure to-day; in fact, 7s. is generally asked. For distant shipment 6s. per lb., c.i.f. terms, is the price. *Cassia oil* firm, at 3s. 2d. to 3s. 3d. per lb. on the spot for oil of fair aldehydo percentage. The forward quotation is 2s. 8½d. c.i.f. terms, for prompt shipment. *Citronella oil* is neglected: 10½d. to 11d. per lb. is the price for tins (native brands) on the spot. *Oil of Lemon-grass* is still quoted nominally at 1½d. per oz. for native brands. *Sicilian essences*, especially bitter orange and lemon, are firmer. The latter is quoted fully 6d. bigger since our last report. *Oil of bergamot* remains unaltered.

**OPIUM.**—The London market is very quiet, and in the few instances in which business has been put through lower rates have been accepted. There is now a good deal of pressure to make sales, but no response on the part of consumers. The following are the quotations:—Good to fine *Soft shipping*, 10s. 6d. to 11s.; ditto *Smyrna*, 9s. 6d. to 10s. 6d.; *Druggists' seconds*, 8s. 6d. to 9s.; and *Persian*, from 9s. to 11s. per lb. Our Constantinople correspondent, writing on July 21, observes:—The market continues very quiet, and beyond a few sales to speculators of 7s. 8d. to 8s. f.o.b., there is no business whatsoever. The arrivals of new crop here and at Smyrna, as compared with last year's, point to a very heavy yield, but it must be taken into account that this year's crop is three to four weeks ahead of last year's, and besides this the early-producing districts will yield above the average. The same, of course, does not apply to other Anatolian districts, where the output will be considerably below an average. We cannot help thinking that as stocks accumulate prices will recede. We have just received a cable from Smyrna advising us that 8 cases sold at 7s. 7d. f.o.b., a decline of 4d. Our Smyrna correspondent, in a letter dated July 14, says that all the stock of last year's opium is in the bands of three or four merchants, who hope, by forming a sort of ring, to keep up values. If America keeps some time longer out of the market these parties will have to give way, and we shall witness a fall of 4d. to 6d. per lb. The arrivals from the interior were 307 cases, against 48 cases in 1893. The sales, from July 7 to 14, were 15 cases *current tale quale* at the equivalent of 8s. 6d. per lb. f.o.b., and 2 cases *Yerli* at 9s. 6d. per lb. f.o.b.

**PHOSPHORUS.**—The quotations remain nominal—2s. per lb. for wedges, and 2s. 1d. per lb. for sticks, but it is possible to buy below these prices; and we understand that the principal manufacturers contemplate a reduction to meet new competition.

**PILOCARPINE.**—As a result of the continued scarcity of good workable Jaborandi leaves the price has been again advanced. Some of the makers now require 140s. per oz., equal to an increase of about 25 per cent. on the last quotation.

**QUICKSILVER.**—The market is unaltered. The principal importers quote 6l.; second-band holders offer at 5l. 18s. 6d. per bottle.

**QUININE.**—The improvement in the market still continues. On Monday 10,000 oz. of second-hand German sold at 11½d. to 11¾d. per oz. on the spot, and on Tuesday a further batch of 5,000 oz. changed bands at 11¾d. per oz. It is said that some business has been done to-day at 11½d. per oz. on the spot, but we have not been able to confirm this.

**SCAMMONY.**—First quality has been sold recently at 24s., second at 18s. per lb. Other grades are very difficult to move.

**SCAMMONY-ROOT.**—Firmly held at 27s. 6d. per cwt. for fair quality. The stock is very small.

**TAMARINDS.**—There have been further sales of Barbadoes tamarinds at 13s. 6d. per cwt.

**TURMERIC.**—A sale of 300 bags fair split *Cochin* bnlbs at 7s. 6d. per cwt. is reported.

**THE Tombstone Pharmacy, Arizona,** we are informed, has changed bands. A change of name also might be cheering news to the stricken patrons of this pill-foundry.—*Western Druggist.*

**VASELINE AND WATER.**—Dr. Van Goole states, in the *Journal de Pharmacie d'Anvers*, that the addition of a little castor oil to vaseline makes it miscible with water in all proportions.



## Memoranda for Correspondents.

In letters for publication correspondents are requested to express their views as concisely as possible.

Correspondents should write on one side of the paper only, and devote a separate piece of paper to each subject of inquiry.

The name and address of the writer should accompany all communications with, if desired, a distinctive nom-de-plume.

## An Earthquake Experience.

Mr. Thomas Christy, of 25 Lime Street, sends us the following copy of a letter sent to Mrs. Christy from a sister residing in Constantinople at the time of the recent earthquake:—

Constantinople, July 12, 1894.

I am writing you a few lines that you may see that I am alive after all the horrors that I have gone through. Just at the time the earthquake happened I was standing at my door talking to the man from whom I purchase my poultry. The flight of stairs that I was standing near descends into the garden; I was on the top step of the landing outside. Without the slightest noise or warning the steps appeared to rise right up, and I was thrown nearly head foremost into the garden. Fortunately, I had nothing in my hands, so I saved myself by catching hold of the woodwork; then there was a most fearful noise and a crack, as if heaven and earth had come together. The house seemed to be tossing about like a ship at sea. As soon as I could get my breath I rushed upstairs expecting to find that the roof had fallen in; but no. If you could have seen my rooms, when I ran up to my large parrot-eage! The bird was nearly mad with fright; the poor little canaries that hang in their cages were swaying from one side to the other nearly at right angles. My large bronze candlesticks, which, you know, are a very great weight, were buried in every direction. The dust and dirt were simply blinding. Just as I was trying to calm my parrot another fearful shock came, and I had to hold on to a chair to keep myself from being thrown to the floor. I thought the end of all things had now come; I made sure that my husband must have been killed, as I could not see anything of Stamboul when I looked out of my windows across the Bosphorus. I then found that the air was full of dust, and that clouds of dust were passing the house. I could not even see the houses of my neighbours which are close by. I then discovered that there were clouds of black dust coming from the roofs of these houses, and I thought they had all caught fire because the tiles appeared to be smoking. I must leave off here because my husband is going to take this letter over to Galata to post. Anyone who has not experienced such an earthquake as this can have no idea what a shock it is to the system.

## Army Dispensers.

SIR,—With your permission I would like to say a few words in answer to W. P. G. re dispensers in Government service.

I am the dispenser in a large institution (one of the largest in London), and one of my late porters was a "qualified compounder of medicines" when in the army. Taking a liking to the man I questioned him, and found him totally unacquainted with chemistry, botany, materia medica, physics, and practical pharmacy. He certainly did know the doses and some of the compositions of the B.P. preparations; in fact, he was about equal to a twelve-months' apprentice.

He told me that all he had to learn was the B.P., with particular attention to doses.

It is rather amusing for a practical pharmacist to read of the exam, being conducted by three senior medical officers, who know, perhaps, about as much of pharmacy, &c., as the man in the moon, if those seniors outside the army are a criterion.

These "qualified compounders of medicines" on leaving the army, are desirous of getting registered on the strength of their having passed a "stiff examination," but we chemists must not be "bluffed" by them.

Faithfully yours,  
RAVENS CROFT. (92/11.)

## Sir Andrew Clark's Prescription for Choleraic Diarrhoea.

SIR,—At this season of the year you may be glad to insert in THE CHEMIST AND DRUGGIST the enclosed prescription for diarrhoea:—

Acid. sulph. aromat.	..	..	..	4 drachms
Spiritus aetheris	..	..	..	4 "
Tinct. chloroformi co.	..	..	..	1 oz. "
" camph. comp.	..	..	..	1½ "
Spiritus menthae pip.	..	..	..	3 drachms
Ext. hematoxili	..	..	..	4 "
Aq. camphorae ad	..	..	..	12 oz.

Dose: Two tablespoonfuls for the first dose, and one tablespoonful every two, three, or four hours afterwards, according to the urgency of the diarrhoea.

This medicine must be preceded by a full teaspoonful of castor oil, and given only if the diarrhoea continues after the action of the oil has ceased.

Yours very truly,  
Tunbridge Wells, July 19. W. H. CULLINGFORD.

## Tincture of Iodine.

SIR,—After much suffering I feel constrained to enter a protest against the proposal, which has emanated from Edinburgh, to double the strength of tincture of iodine. I write as a user of the tincture, and not as a pharmacist. My experience in the former capacity may be briefly told. Six months ago my doctor told me to paint my chest and side with tr. iodi B.P. I had read Mr. C. F. Henry's paper on the tincture not long before, and told the doctor that it was too weak a preparation; could I not use equal parts of tincture and liniment? No, that would blister me; he wanted the slow action of the iodine. We agreed to use, but against the doctor's better judgment he said, a 1-in-20 tincture. The second day my side was blistered, and the skin began to come off. I had to seek a fresh patch to work on, and resort to the B.P. strength. Two months later the tincture had to be used once more, and again within ten days part of my surface began to peel off. To-day it is as hot as man can wish it to be, and for the third time I am shedding skin. It is not a comfortable process at all.

What I want, Mr. Editor, is for you to use your influence with Professor Attfield and the General Medical Council so that they may not listen to Mr. Henry's blandishments in regard to this matter. I now feel very small indeed when the doctor asks me what the area of the denuded parts is. It seems to me that I as a pharmacist had no right to dogmatise as to what was a suitable application for my trouble—that is the department in which the doctor is better up than I or any other pharmacist can possibly be. Don't you think so?

Yours truly,  
C. & D. (94, 37.)

## The New Board of Examiners.

SIR,—I think the proposed plan of making professors examiners a retrograde one, and only calculated to secure patronage for the Square school.

When I went in for the Major, Professor Bentley took me in botany. I missed one question. He said, "You did not attend such-and-such a lecture." "No," I said, "I was late." Ought this state of things to be reverted to?

Yours faithfully,  
PHARMACIST. (93/17.)

## LEGAL QUERIES.

95/7. Subscriber.—There is nothing except his own modesty which need prevent a qualified chemist and druggist describing himself as an analytical chemist.

95/23. *Archil.*—You will find details of the registration of trade-marks on page 185 of the DIARY, 1894.

90/28. *Kola.*—We cannot advise you in a dispute between yourself and your master. You should consult with your parents, and if they think you have a grievance it could probably be put right by an amicable discussion. Eventually a solicitor might be consulted.

93/64. *Bones.*—There is no law to prevent anybody, whether registered under the Dentists Act or not, from performing dental operations of any kind. It is the use of certain titles and descriptions which is interfered with by the Act.

93/55. *H. J. S.*—You did not enclose the label, but we do not see that you have any case. You use a certain fancy name for a perfume; you never registered that name as a trade-mark; another chemist, who alleges that he has as much right to the title as you, uses the same name for another toilet-preparation. You certainly cannot proceed under the Trade-marks Act. Probably either of you could prevent the other getting registration if it were applied for now. The only chance—and that is not a likely one—would be to ask for an injunction on the ground that the public might believe that the other preparation was made from your perfume, which was the ground on which Eno got an injunction against the maker of a fruit-salt baking-powder.

#### DISPENSING NOTES.

*Correspondents should consult "The Art of Dispensing" in regard to dispensing difficulties. Difficulties not explained therein may be sent to the Editor, who invites a general expression of opinion upon the undermentioned topics.*

#### Which was Meant—a Mixture or a Gargle?

91/45. *Pestle* dispensed this as a mixture:—

Tr. ferri perchlor.	..	..	..	..	3 <i>j.</i>
Pot. chloratis	..	..	..	..	3 <i>j.</i>
Glycerini	..	..	..	..	3 <i>j.</i>
Aqua ad	..	..	..	..	3 <i>vj.</i>

M.

Sig.: 3*j.* every three hours.

He was informed afterwards that a gargle was intended that it was not to be taken, and that it had been so dispensed by another chemist. The preparation as prescribed would most assuredly be dispensed by most dispensers as a mixture, and the directions so written upon the label; perhaps the "other fellow" may have been acquainted with the medical man's habit—idiosyncrasy we should rather call it. Many medical men prescribing such a mixture direct the patient to use one portion as a gargle and then to swallow a second portion: possibly this may have been intended, but the patient "got mixed" over the instructions.

#### Mixture of Iodide of Potash Decomposing.

25/794. *Goodwin* wishes to know how to prevent this mixture decomposing:—

Potass. iodid.	..	..	..	..	gr. iv.
Soda bicarb.	..	..	..	..	gr. xv.
Ammon. carb.	..	..	..	..	gr. iv.
Spt. etheris	..	..	..	..	m <i>xxx.</i>
Tr. nuc. vom.	..	..	..	..	m <i>x.</i>
Aq. chlorof. ad	..	..	..	..	3 <i>ss.</i>

M.

This decomposition is unusual in this country if each separate ingredient be all right. Was the iodide pure? With spirit. ether. nit. it is a common occurrence. Of course, in a hot climate changes are more prone to take place. Try the ether for the peroxide of hydrogen reaction with iodised starch-paper. The proper method of dispensing would be:—Dissolve the saline ingredients in the chloro-

form-water; add the nux, and, lastly, spt. etheris. Label "Shake the bottle."

#### Permanganate of Potash, Iron, and Ergotin Pills.

88/26. *E.* asks what we would do with a prescription like this:—

Pot. permanganat.	..	..	..	..	gr. ij.
Ferri carb.	..	..	..	..	gr. iiij.
Ergotin.	..	..	..	..	gr. ij.
Mucilag. tragacanth.	..	..	..	..	q.s.
M. Ft. pil. Tales xij.					

Dispensed as written it would be impossible to obtain a pill-mass. Communicate if possible with prescriber, and draw his attention to the incompatibility of the ingredients. If he still insist upon the combination, then rub up the permanganate with a little resin ointment or Martindale's kaolin excipient, add the ferri carb., and lastly ergotin, evaporated to dryness over a water-bath.

#### MISCELLANEOUS INQUIRIES.

*The Editor replies to queries of general interest, in the order in which they are received. Replies are inserted according to the space available. Postal answers cannot be supplied.*

*Back numbers containing formulae, educational or other specific information can be obtained from the Publisher.*

79/14. *Ammonia.*—Your question concerning evolution of Gas from Liquid Ammonia was noted last week—page 60. We find a series of useful tables upon the subject in Hornby's "Gas Engineer's Laboratory-guide," 1894 (E. & F. N. Spon, 125 Strand). *Fellon-balls.*—We do not know of any formulae at present; may refer to them again should we meet with any reliable. *Cud-balls* or *masticatories*:—

Pulv. rad. althaeæ	..	..	..	..	3 <i>j.</i>
" glycyrrh.	..	..	..	..	3 <i>j.</i>
" gum acaciaæ	..	..	..	..	3 <i>j.</i>
" sal. communis	..	..	..	..	3 <i>ij.</i>

Make a stiff mass with water, and cut to suitable sizes.

Others use mastic and asafoetida massed together.

86/19. *Tamarind.*—(1) Red or black currant paste for lozenges may be made as follows:—Take 7 lbs. of currants (black or red) and 1 pint of water and boil together, crushing the berries with a pestle till the mixture is thoroughly pulped; then pass through a sieve and beat into a paste with 3 to 4 lbs. of powdered sugar. (2) A suitable label for essence of tamarinds can be obtained from any of the printing-houses. (3) Opopanax perfume:—

Musk	..	..	..	..	..	3 <i>ss.</i>
Vanilla	..	..	..	..	..	½ oz.
Touquin beaus	..	..	..	..	..	¼ oz.

Reduce to coarse powder, and percolate with S.V.R. to produce 25 fluid ounces. To this add—

Extract of orris	..	..	..	..	..	3 <i>xlij.</i>
" rose (pomade)	..	..	..	..	..	3 <i>x.</i>
" orange	..	..	..	..	..	3 <i>v.</i>
" cassia	..	..	..	..	..	3 <i>v.</i>
" violet	..	..	..	..	..	3 <i>x.</i>
Oil of citronella	..	..	..	..	..	m <i>xv.</i>
" citron	..	..	..	..	..	m <i>60.</i>
" bergamot	..	..	..	..	..	m <i>65.</i>
Otto of rose	..	..	..	..	..	m <i>47.</i>
Oil of lemon	..	..	..	..	..	m <i>10.</i>
" patchouli	..	..	..	..	..	m <i>33.</i>

Mix.

89/31. *P. I. S.*—*Oleum Arachis* is the so-called nut oil obtained from the seeds of *Arachis hypogaea*. It may be obtained from any wholesale house.

89/66. *D. D. R.*—A good manual on the mounting of microscopic objects is "Davies' Preparation and Mounting of Microscopic Objects," published by Lewis, Gower Street, W.C., price 2*s. 6d.*

84/23. *Tartar.*—*Tinctura Antispasmodica.*—Hager gives the following formula:—

					Parts
Tinct. digitalis ..	..	..	..	..	10
" opii ..	..	..	..	..	5
Olei juniperi ..	..	..	..	..	15
Spiritus tenuior ..	..	..	..	..	85
M.D.S.					

76/63. *Rusty.*—*Bedona.*—These appear to be the seeds of a species of *Pyrus*. They are probably used for their mucilaginous properties.

88/3. *Student.*—*Allowances for Powdered Extracts and Pills.*—The quantities you mention are about right, except pil. aloes et myrrh., which should be one-quarter, and not one-seventh. It would be an easy matter for you to check them when you have occasion to make any of these articles.

84/67. *Enterprise.*—We should have supposed that the Secretary of the B.P.C. sent his blue list to colonial as well as to home members, but we have no official knowledge. You should ask him. (2) Ale and porter cannot easily be made on a small scale. The same processes have to be followed as with large quantities, and it is much more difficult to regulate the fermentation. You would find it cheaper to buy the articles ready made. Extractum byne would be useless for the purpose.

86/14. *S. H.*—The Rabbit-poison seems to be a mixture of powdered opium and apple-pulp. The probable cost, supposing there to be 1 oz. of opium in the pound, would, at the outside, be about 1s. per lb. If it is to be kept any length of time we should suggest the addition of a preservative, such as boric acid. It is a dangerous mixture, and from its attractive appearance should be most carefully kept from the reach of both children and adults.

88/70. *Aureole.*—Gold-alloy used by jewellers is a mixture of silver and copper, the proportions varying according to the number of carats of the gold. Nine-carat gold is a mixture of 9 parts gold,  $4\frac{1}{2}$  parts silver, and  $10\frac{1}{2}$  parts copper.

87/56. *S. H.*—*Colouring for Brandy.*—The colour of brandy, being due to matters derived from the cask in which it is stored, may be almost perfectly imitated by using a strong tincture of oak chips, both bark and wood being used to prepare the tincture. Tincture of catechu is also sometimes used for this purpose.

87/39. *Shamrock.*—To detect ol. terebinth. in ol. limonis is a very difficult matter, owing to the great similarity in the composition of the oils. Perhaps the best and simplest test is to ascertain the saponification number—i.e., the number of milligrammes of KOH necessary to saponify 1 gramme of the oil. Lemon should require 6·5, while turpentine only takes 2·8. This figure, combined with the rotatory power determined by the polarimeter, should be sufficient to detect admixture. The rotatory power of lemon is  $[\alpha]_D = + 60^{\circ}$ , while French turpentine, which is the usual adulterant, is levorotatory,  $[\alpha]_D = - 27^{\circ}$ .

90/45. *Avordupois.*—*To Preserve Green Peas.*—A solution of salicylic acid in an aqueous solution of borax would be most suitable. Use the solution hot. The colour is intensified by the addition of chlorophyll, which is now readily obtainable. A trace of a copper salt has been sometimes used; but since the Glasgow prosecutions—see also page 36, July 8, 1893—this substance is better avoided.

93/36. *J. H. B.*—We cannot make investigations with powders sent us with no suggestion of what they are for, nor any possibility of the information being of interest to anybody besides yourself.

89/26. *Solidus.*—Homœopathic diluted tinctures are made from the mother-tinctures, as follows:—The mother-tincture is regarded as tincture 1 x when it is made of 1-to-10 strength. One part of this mother-tincture vigorously shaken with 9 parts of alcohol yields tincture 2 x; 1 part of 2 x with 9 parts of alcohol yields tincture 3 x. The centesimal scale is similarly worked. One part of mother-tincture with 9 parts of alcohol yields a tincture 1 c.; 1 part of this with 99 parts of alcohol yields a tincture 2 c., and so on. For full instructions as to all homœopathic preparations, see Keene & Ashwell's "Companion to the British Homœopathic Pharmacopœia" (3s. 6d.).

83/1. *Lux.*—The article on *Eczema in Dogs* appeared in THE CHEMIST AND DRUGGIST, May 30, 1891.

89/68. *A. A. F.*—*Vermin-killers.*—Strychnine generally has the preference over arsenic for strength. See page 679, November 4, 1893. A non-poisonous vermin-killer is given at page 844, December 9, 1893.

90/14. *Veritas* sends formula for a *Female Mixture*, asking our opinion as to its being dangerous or incompatible:—

Forri sulph.	..	..	..	..	Dij.
Liq. ergotae	..	..	..	..	3ij.
Dac. aloes. co. conct.	..	..	..	..	3ij.
Iaf. amari ad	..	..	..	..	3vij.

M.

It is certainly incompatible, and would form a far from elegant mixture, although a very efficient one; but the principal objection is the presence of ergot, it being a scheduled poison, and a substance likely to land whoever might be foolhardy enough to send such a preparation broadcast about, in trouble with medical men, coroners, and coroners' juries, should an accident occur. Leave ergot and such-like drugs alone: the mixture is efficient without it; or the following will make a nicer preparation, and will prove efficient:—

Forri sulph.	..	..	..	..	Dij.
Quiu. sulph.	..	..	..	..	gr. xvij.
Magn. sulph.	..	..	..	..	3j.
Ac. sulph. dil.	..	..	..	..	3j.
Aq. pulegii ad	..	..	..	..	3vij.

M.

Dose:  $\frac{1}{2}$  ss. to  $\frac{1}{2}$  j. three times a day.

88/71. *B. H. A.*—*Grape Sugar* is a Solvent for Lime, in the same way as cane sugar, glucosates being formed in place of sucrates. We are afraid your theory of substituting grape for cane sugar for those whose teeth are decaying would be of little use, especially when the readiness with which it ferments and its suitability as a food for microbes are considered, these being more likely sources of decay than any solvent power it might or might not exert upon the lime salts of which the teeth consist.

91/7. *F. H.*—*Sick Fowls.*—From your description the sickness would seem almost epidemic; diarrhoea, passing "green stuff," loss of appetite, giddiness, and death, whole flocks being attacked and dying from five to ten each day. The runs should be well cleaned out and limed; at the first appearance give a little sulphate of soda or calomel and Dover's powder; in the more advanced stages, sulphate of iron in water, chalk, and cayenne pepper; for food, rice, chick peas, and such like. In "Veterinary Counter-practice" you will find many useful hints and formulae.

89/54. *Interested.*—To prevent Leakage of a Fat-food through the Corks try dipping the corks in a solution of mastic in rectified spirit or methylated ether, and allowing to dry; another likely method would be to dip the corks in a hot solution of silicate of soda, and dry in a current of warm air before corking. The composition you mention of shellac, resin, and Venice turpentine would make a nice finish to tops of bottles after corking, especially if coloured.

90/21. *Ajax.*—**Hop Tonic Bitters.**—See page 147, January 30, 1892, or—

	Oz.
Rad. gentianæ .. .. .. .. ..	1
Rad. podophyl. .. .. .. .. ..	1
Rad. taraxaci .. .. .. .. ..	2

Boil gently for fifteen minutes in 6 pints of water, strain hot, and in the decoction infuse for one hour—

	Oz.
Humull. .. .. .. .. ..	3
Fol. uva ursi .. .. .. .. ..	1½
Cort. auranti. .. .. .. .. ..	1½

When cool, add spt. chloroformi 2 oz., in which m16 ol. gantheiae has been dissolved. Shake well, stand for another hour or so, and filter. To the filtrate add glycerine 4 oz. and water to 1 gallon.

Dose: 3j. to 3ij. three times a day.

#### Tomato Catsup:—

Brunised tomatoes .. .. .. .. ..	1 gall.
Common salt .. .. .. .. ..	8 oz.

Stand for three or four days. Squeeze out the juice, and to every ½ gall. add black pepper 1 oz. Boil half an hour, strain and add—

	Oz.
Allspice .. .. .. .. ..	½
Ginger .. .. .. .. ..	½
Mace .. .. .. .. ..	½
Cochineal .. .. .. .. ..	¼

Simmer gently half an hour, strain, cool, and bottle. A little brandy may be added, and shallots, if the flavour be liked, may be boiled along with the black pepper. .

89/37. *Mineral.*—As a basis for a Colour for Aerated Waters, of various shades, try:—

	Oz.
Brazil-wood .. .. .. .. ..	1
Glycerine .. .. .. .. ..	2
Water .. .. .. .. ..	8

Macerate for a week, strain, press, and filter.

For Orangeade Colour, add 5ss. of citric acid to finished product. Solution of saffron is also used by some makers.

89/47. *Douche.*—We do not know the composition of the remedy you mention; but for Nasal Catarrh you cannot do better than recommend a solution of chloride of ammonium or of benzoate of soda, 10 grs. in each ounce. One tablespoonful to be used as a spray or douche, diluted with ½ pint of lukewarm water. A snuff, consisting of menthol, borax, chloride of potash, and sugar, with a little starch, is a useful adjunct. Try this:—

Menthol .. .. .. .. ..	2j.
Pot. chlor. .. .. .. .. ..	5j.
Soda boracis .. .. .. .. ..	5j.
Sacch. alb. .. .. .. .. ..	5j.
Pulv. amyli ad .. .. .. .. ..	3j.

M.

90/47. *Scotia.*—*Eau de Cologne and Lavender-water.*—During 1889 we published, from various correspondents, a series of formulæ which you will find at page 284, August 24; page 342, September 7; page 575, October 19. The DIARY for 1891 gives also useful instructions and formulæ. The one you refer to is published in it, and is known as the "prize formula." In case you do not have the DIARY by you we publish it again:—

#### *Eau de Cologne.*

Oil of bergamot .. .. .. ..	2 drs.
" lemon.. .. .. .. ..	1 "
" neroli .. .. .. .. ..	20 gtt.
" origanum .. .. .. .. ..	6 "
" rosemary .. .. .. .. ..	20 "
Rectified spirit (treble dist.) .. .. .. ..	20 oz.
Orange-flower water .. .. .. ..	1 "

Mix.

89/39. *W. H. T.*—**Polish for Brown-leather Boots.**—See pages 619, 620, October 21, 1893, and page 96, July 18, 1891; see also DIARY, 1894, page 370. Any good furniture-cream,

made thickish, and coloured with an oil-soluble aniline-dye, makes a good polish.

90/22. *Nemo.*—To Preserve Liquid Gum, use salicylic acid in the proportion of about 15 grs. to each pint, dissolved with the aid of about 30 grs. of borax, or prepare the gum by solution in chloroform-water. Creasote, carholic acid, or oil of cloves have also been used for the same purpose. Some makers, we believe, allow fermentation to take place before bottling off.

150/8. *Bland.*—**Blaud's Pills.**—See answer to "Carico Wahoo" (93/37) in this issue. Your trouble arises from the hygroscopic nature of glycerine, when used alone. The form we give gets over that difficulty. Various excipients are given, and the whole subject gone into fully, in "The Art of Dispensing." Have you got a copy?

89/82. *Chemicus.*—**Liver-mixture.**—Here is a choice of two. Either will suit the label:—

Tr. podophyllin. .. .. .. ..	5iss.
Soda bicarb. .. .. .. .. ..	3ij.
Succ. tamx. .. .. .. .. ..	3j.
Inf. gent. co. concet. .. .. .. ..	5iss.
Aq. chlorof. ad .. .. .. .. ..	3xxiv.

M.

Ae. nitro, hydrochlor. dil. .. .. ..	5ij.
Magn. sulph. .. .. .. .. ..	3j.
Tr. cinnamon. .. .. .. .. ..	3ij.
Glycerini .. .. .. .. ..	3j.
Inf. quassiae ad .. .. .. .. ..	3xxiv.

M.

Dose: Adult, two tablespoonfuls; child, two teaspoonfuls. Three times a day before meals.

The addition of a little tr. zingih. or tr. capsici will be an improvement.

#### 83/1. *Lux.*—**Toilet Wash-powder:**—

	Parts.
Bicarbonate of soda .. .. .. ..	1
Powdered curd soap .. .. .. ..	3
Fine almond meal .. .. .. ..	6

Mix.

Add eucalyptus oil and any other essences to give an agreeable perfume. To be used in place of soap for sunburn skin-roughness due to changes in the weather, sea-bathing, &c.

93/37. *Carico Wahoo.*—The formula for Blaud's Pills you quote is evidently unworkable. Why not follow the B.P.?—it is as good as any. We have found the best results—a beautiful green mass being obtained, which keeps well if varnished and sugar coated—by this form:—

Perri sulph. xtls. .. .. .. ..	5ij.
Potass. carb. .. .. .. .. ..	5iss.
P. tragacanth. .. .. .. .. ..	5ss.

Rub down the iron to a rough powder. Mix the potash and tragacanth together, add iron, and mix. Mass quickly with equal parts of simple syrup and glycerine, making the mass rather soft; roll out smartly and allow to stand for an hour or so upon a flat tray before varnishing and coating.

With a little practice this gives a pill of perfect consistency, and even when kept for a reasonable time yields a greenish solution to water, which effervesces slightly on the addition of dilute hydrochloric acid.

90/30. *Cobalt. "Weather Prophets."*—Little dolls dressed in fabrics dyed with nitrate of cobalt, or pictures drawn upon parchment-paper with the same substance. In dry weather they show a bluish tint, in wet weather changing more or less to a pink colour. Solutions of chloride of cobalt, chlorido of copper, or these two combined with a little chloride of nickel are, with the addition of 10 per cent. gelatine, painted upon glass for the same purpose. See DIARY, 1892, page 394. See also "Scientific Mysteries," 1*c.* published at this office.

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## AN APPEAL FOR LEGISLATION.

Soapmakers who deal only in pure, high-class soaps, and obtain popularity for an article of unimpeachable quality, such as

# Vinolia Soap

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## AN ACT OF PARLIAMENT

### SHOULD BE AGITATED FOR

that would put all soaps unmistakably on their merits, requiring each to be classified according to its true qualities—as, say, first, second, or third class. Then these inferior imitations would find their proper level.

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is probably the purest, safest, and best soap now before the public, containing no free alkali or saccharine matter, but, on the contrary, neutralising demulcent matter, and being exquisitely creamy and fragrant.

PREMIER, 4d.; FLORAL, 6d.; BALSAMIC 8d.; TOILET (Otto), 10d.; and VESTAL, 2s. 6d.

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**SELECTED DRUGS AND PURE CHEMICALS.**

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It has the strong odour and bitter aromatic taste of good quality myrrh combined with the fragrant smell of volatile oil of nutmeg.

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A cardiac tonic indicated in functional disorders of the heart, especially in palpitation arising from reflex irritation in dyspepsia and in the milder forms of angina pectoris.

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Free from the nauseating taste of the corresponding Liquor of the Pharmacopeia. It remains bright when diluted with water in any proportion.

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Identical in strength with the official liquid extract, from which it differs by mixing bright with water, wine, or syrup.

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A reliable Hepatic and Intestinal Stimulant.

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A non-irritating, tasteless, and certain Laxative in obstinate Constipation.

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## SYR. HYPOPHOS. CO.

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MALT EXTRACT  
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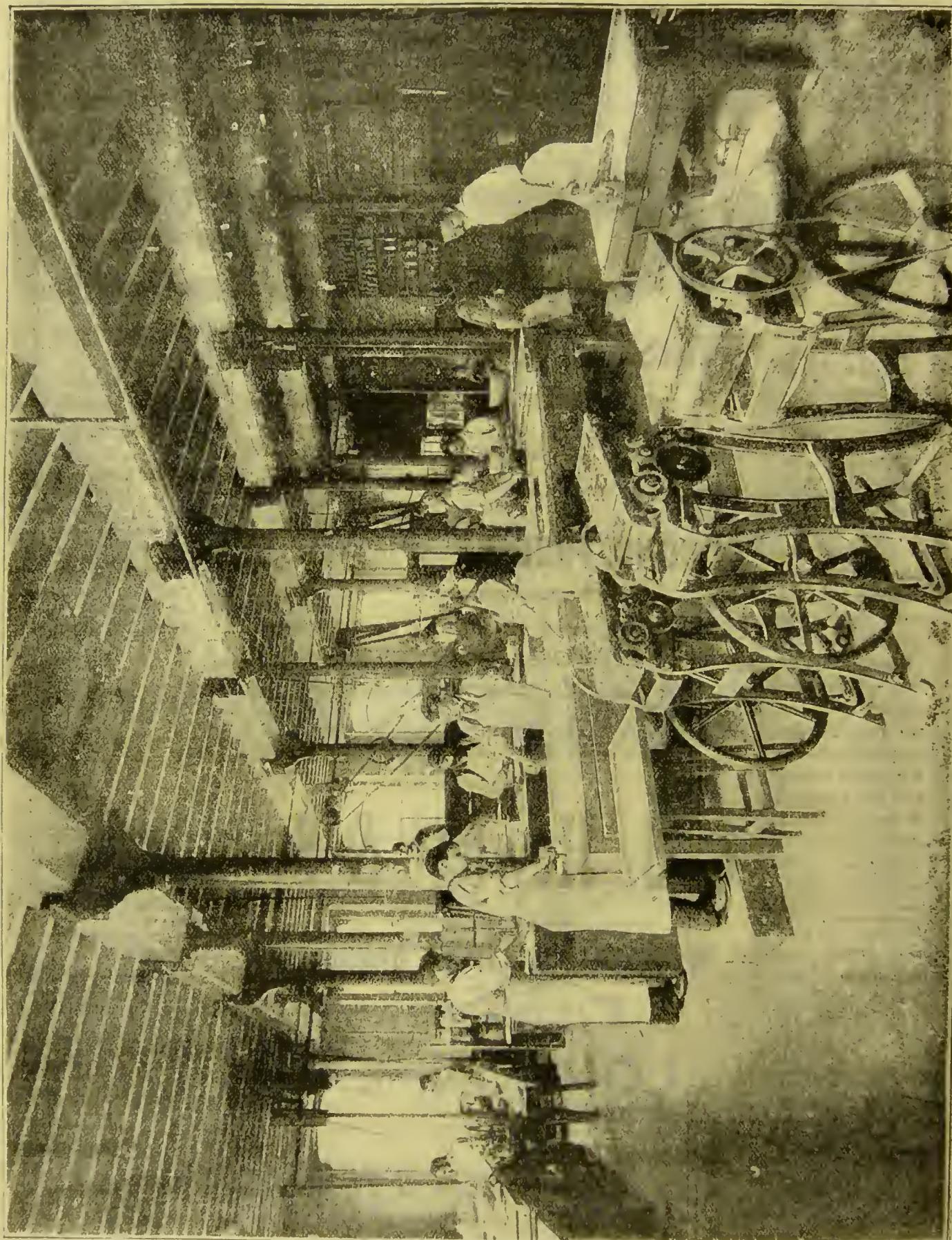
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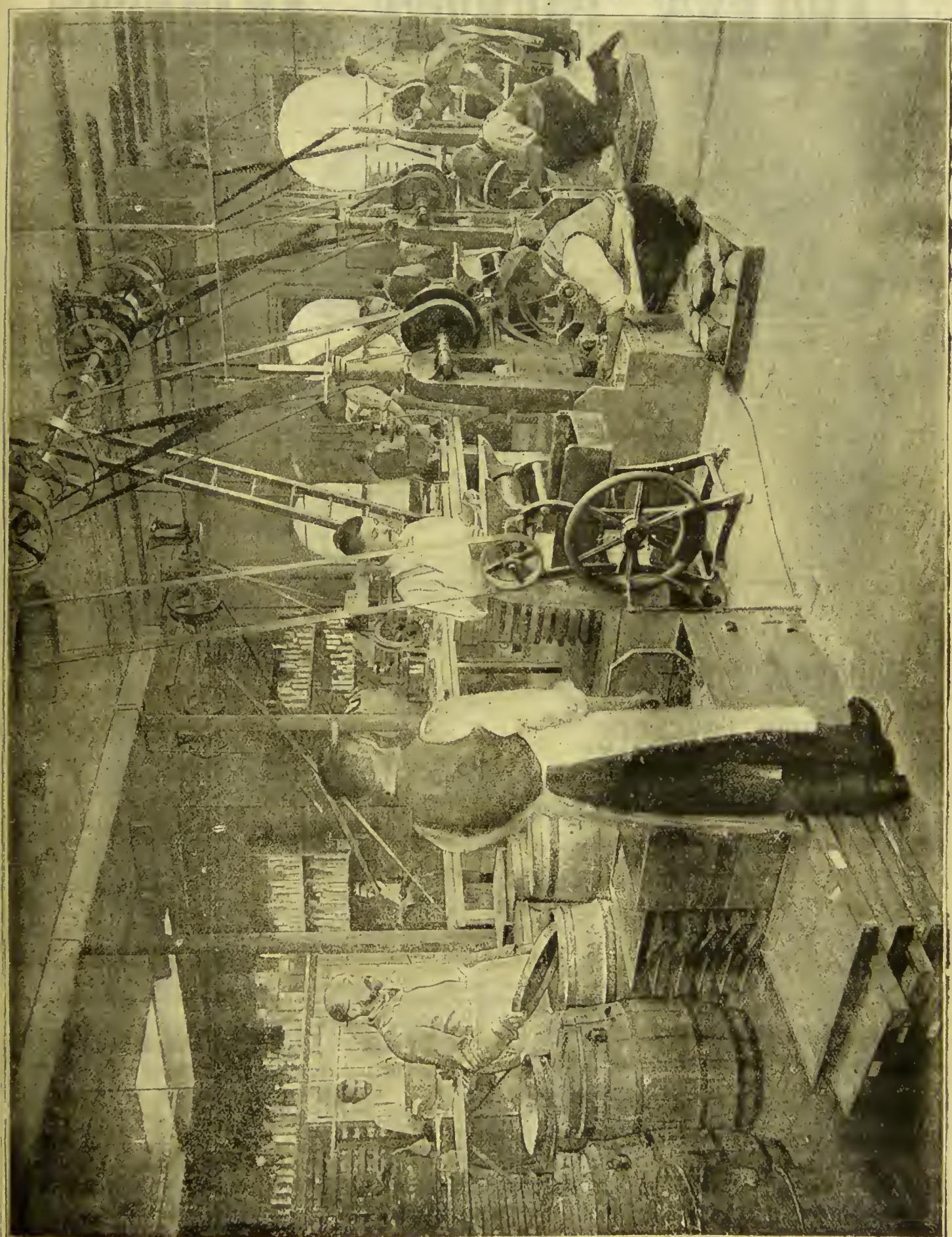


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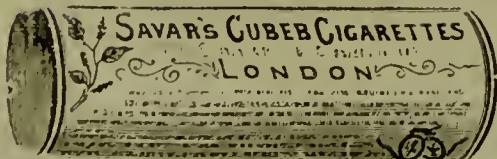
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PUREST, with most artistic label.

3 oz. (fluid),	3/2
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Yours faithfully,

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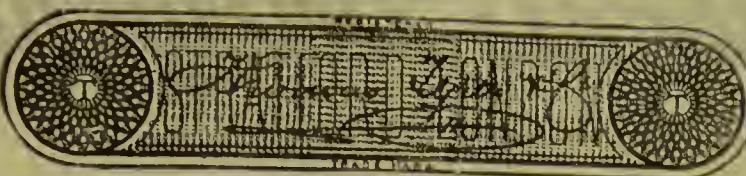
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**SPT. AMMON. AROM. B.P.**

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ARSENIC,  
COPPER, LEAD,  
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GUARANTEED 1.080—1.500—1.750,  
AND TO CONTAIN NO SULPHATE OF LIME.

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**SALTS and SYRUPS of the**  
**HYPOPHOSPHITES.**

**BARIUM — CALCIUM — IRON — MANGANESE — SODIUM — POTASSIUM.**

[See opposite page.]

# "Liquor Carbonis Detergens"

## Notice

Pharmacists who pride themselves upon examining the preparations they dispense are invited to apply a few simple dispensing tests to determine how superior the original Liquor is to all its imitations.

Such imitations are invariably unskillfully made, and usually compounded from unsuitable materials.

## Caution!!!

The name "Liquor Carbonis Detergens" having been registered as a Trade Mark, notice is hereby given that legal proceedings will be taken against any person, firm, or limited company who sell, invoice, dispense, or in any way traffic in any imitation of the original preparation under its registered name.

That there may be every facility for the accurate dispensing of Physicians' Prescriptions, the following sizes of the Liquor can now be obtained unstamped.

2 pints (Glass) ...	... 6/- each.	} Less usual Trade Discount.
$\frac{1}{2}$ gallon (Stone) ...	... 11/6 ,,	
1 " "	... 22/- ,,	

Proprietors & Manufacturers  
**Wright Layman & Umney**  
 Southwark - London. S.E.

# WYLEYS, LIMITED,

COVENTRY and BIRMINGHAM.

## SUGAR-COATED PILLS

(COATING FREE FROM MINERAL MATTER)

Examples of Prices, 10 gross and upwards (net cash).

PER GROSS.

Blaud's Pill (5 grs.)	...	...	6d.
Pil. Rhei Co. B.P. (4 grs.)	...	...	8d.
"Little" Liver Pills	...	...	7d.

## PEARL-COATED PILLS

Pil. Rhei Co. B.P.	...	...	5½d.
Pil. Aperiens	...	...	6d.
Blaud's Pill (4 or 5 grs.)	...	...	4½d.
"Little" Liver Pills	...	...	5d.

## GELATINE-COATED (OVAL) PILLS

Pil. Aloin, Belladonnæ, et Strychnin.	...	...	...	2/-
Pil. Cascara, Podophyllin, et Nux Vomica	...	...	...	1/9
Blaud's Pill (5 grs.)	...	...	...	1/-
Pil. Easton. (each pill equivalent to 1 drachm of Easton's Syrup)	...	...	...	2/3

## CAPSULES—FLEXIBLE GELATINE

Cascara (specially active extract)	14/-
Castor Oil (15 min.)	...
Copaiba (10 min.)	...
Copaiba (15 min.)	...
Male Fern Extract	...
Santal Oil, English (10 min.)	38/-

ALSO IN LABELLED BOXES.

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Price per Gross ... ... from 20/-  
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*A definite Chemical Compound, answering British Pharmacopœia and all other Official Tests.*

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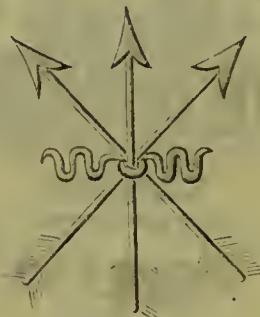
Edinburgh Address ...	North Bridge Chemical Works, ABBEYHILL.
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CODEINE and SALTS,  
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ANSWERING ALL THE RECOGNISED PURITY TESTS.

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SOLID AND LIQUID EXTRACTS, B.P. & U.S.P.,  
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## SCHACHT'S LIQUOR BISMUTHI.

Absolutely pure. The original preparation, invented and introduced to medicine by Mr. Schacht in 1855. Its distinct superiority is universally admitted. In  $\frac{1}{2}$  lb., 1 lb., 2 lb., and 5 lb. bottles. Dose: 1 drachm diluted. When ordering, please to specify "SCHACHT'S."

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Contains pure Bismuth and *Pepsina Liquida* in combination with sedatives. A formula most serviceable in the treatment of gastric pain. In 4 oz.,  $\frac{1}{2}$  lh., and 1 lb. bottles.

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A standard preparation, of definite alkaloidal strength, containing the entire medicinal properties of the finest Cinchona Bark. It is, in fact, Bark minus the woody fibre, and its efficiency has been proved by careful medical inquiry. Dose: Ten to sixty drops.

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Fluid Pepsine of extraordinary activity—tasteless, odourless, attractive to patients, and reasonable in price. Every teaspoonful when tested by the official B.P. process is guaranteed to effect the solution of 1,000 grains of albumen. Peptic power is the only test of value. Most of the foetid and repulsive dry Pepsines have proved worthless. In 4 oz. bottles, £s. 6d. each; and larger sizes, for dispensing, at a cheaper rate.

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Each drachm contains in a concentrated form, besides the fluid Pepsine, a full dose of Schacht's Liquor Bismuthi. Dose: One drachm. In  $\frac{1}{2}$  lb. and 1 lb. bottles.

N.B.—*Peps. Liq. c. Bismutho Co.* contains, in addition, one grain soluble Euonymin in each drachm.

## SCHACHT'S PEPSINA LIQUIDA C. EUONYMIN.

Each drachm contains one grain of soluble Euonymin. Dose: One drachm. For dispensing,  $\frac{1}{2}$  lb. and 1 lh. bottles.

## SCHACHT'S LIQ. PODOPHYLLI C. BISMUTHO.

A perfect solution of Podophyllin, containing  $\frac{1}{2}$  grain in each drachm.

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A pleasant and active form of Cascara Sagrada. Dose: One to three teaspoonfuls diluted. In 4 oz.,  $\frac{1}{2}$  lh., and 1 lh. bottles.

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An entirely new Essence, perfectly reliable, for the coagulation of Milk and the production of Juncets and Curds and Whey. It is a preparation of the most wholesome nature, that contains no salt, and has no special taste, smell, or colour. In large bottles at £s. of any Chemist. This Essence keeps well in any climate.

*The above Preparations can be procured from Messrs. Barclay & Sons, W. Edwards & Son, and the Wholesale Druggists; or direct by post from*

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Known for thirty years as the best preparation of its kind for delicate children.

## ALWAYS UNIFORM.

Substitutes, more or less emphatically stated to be made from a published formula, vary enormously in the quantities of Iron and Lime, and also in acidity. (See "Squire's Companion to the British Pharmacopœia.")

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*A Purified Solution of Opium standardised to contain 1 per cent. of Morphine.*

A valuable sedative without the objectionable after-effects of opium. The Solution of the British Pharmacopœia is very different from this, and is no substitute for it.

## SQUIRE'S PREPARATIONS OF CASCARA

All bear the word KASAK as a registered Trade Mark.

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**NON-TOXIC AND NON-IRRITANT.**

Readily soluble in water. It dissolves Uric Acid concretions twelve times more freely than Lithia Carbonate.

Is Indicated in all cases of Gouty Affections, and in Stone or Gravel of the Bladder and Kidneys.

For literature see "The Therapist," Vols. I. and II., published by Aug. Siegle, 30 Lime St., London, E.C.

PIPERAZINE may be obtained in Crystals wholesale at **10/6** per oz. net, or in **1-GRAMME COMPRESSED TABLETS**, pure, without any admixture, Schering's own manufacture, at **3/6** per tube of 10 × 15 grain Tablets.

**Minimum Dose—1 Gramme or 15 Grains per day in a Pint of Water.**

*This may be divided into two or three portions during the day.*

# PHENOCOLL HYDROCHLORIDE (PATENT).

**NON-TOXIC, AND HAS NO EFFECT ON THE HEART.**

This is a preferable analgesic having no toxic effects, nor does it interfere with the circulation of the blood, nor the heart, nor does it reduce the temperature below normal.

Is indicated in all cases accompanied by feverish symptoms, particularly in Rheumatism, Neuralgia, and similar ailments.

**MALARIAL FEVER YIELDS TO NO OTHER REMEDY SO WELL.**

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PURE AND CHEAP.

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Bicarbonate of Soda	...	...	...	...	...	97·20
Mono Carbonate of Soda	...	...	...	...	...	1·90
Sulphate of Soda	...	...	...	...	...	trace
Chloride of Sodium	...	...	...	...	...	·035
Moisture	...	...	...	...	...	·82
Insoluble	...	...	...	...	...	nil

# PURE ALKALI,

GUARANTEED 58 DEGREES.

EQUAL TO 98 PER CENT. OF CARBONATE OF SODA.

Most economical form of Soda for the use of Printers,  
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By far the Purest and Cheapest form of Washing Soda.

Only 1 lb. of Concentrated Crystal Soda required to do the work of 2 lbs. of Washing Soda.

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OF THE FINEST QUALITY.

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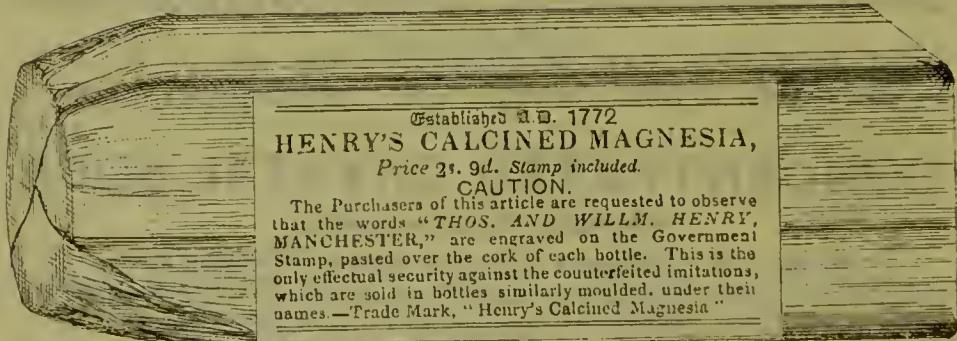
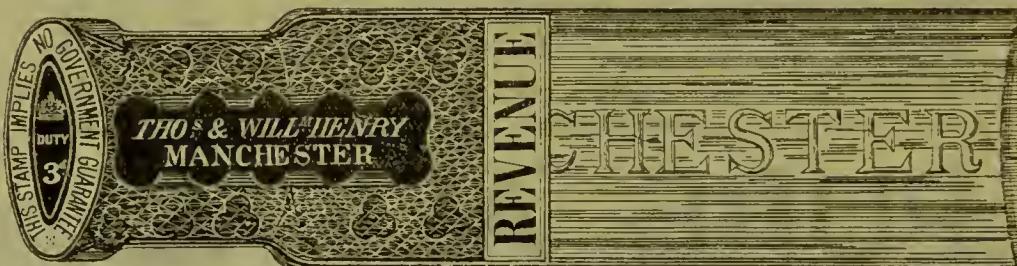
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**NORTHWICH, CHESHIRE.**

ESTABLISHED A.D. 1772.

# HENRY'S CALCINED MAGNESIA

Messrs. Thomas and William Henry, of Manchester, England, beg to inform the Trade generally that they still continue to manufacture their old-established "CALCINED MAGNESIA" IN THE GREATEST CHEMICAL PURITY, and also wish to warn Buyers against the numerous spurious and very inferior imitations offered in various Foreign Countries. For the guidance of the Trade they submit facsimiles of their Bottle, wrapped and unwrapped.



Messrs. HENRY will be pleased to hear from Merchants who are suspicious of any Stock in their possession.

*The Magnesia may be had through all Wholesale Houses.*

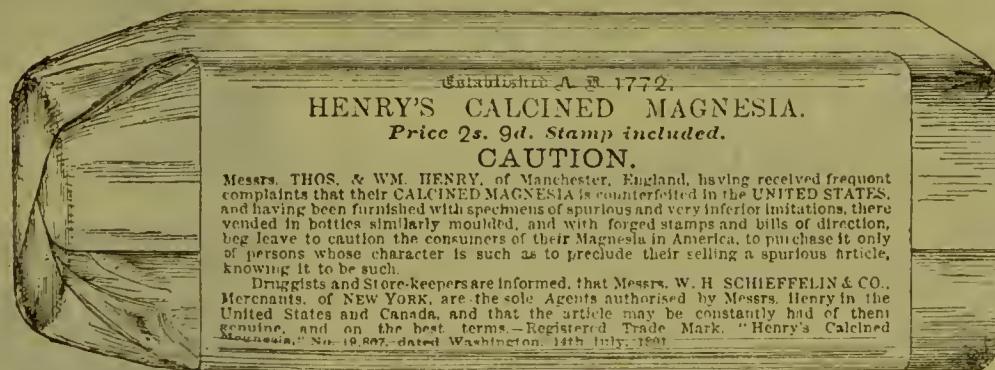
Registered Trade Mark—"HENRY'S CALCINED MAGNESIA."

# To the American Trade

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THE PROPRIETORS of HENRY'S CALCINED MAGNESIA desire to warn the Trade in Canada and the United States that gross imitations of their Magnesia are being produced in France and elsewhere, and are offered to foreign buyers. These articles closely resemble genuine HENRY'S MAGNESIA, in respect to Containers, Labels, Wrappers, and Government Stamp, and deceive all but the most wary, until the so-called Magnesia is tried. The imitations are most inferior.

The sale of these articles in England is a felony punishable by penal servitude for a term not exceeding fourteen years. The very serious nature of the offence deters the unscrupulous packers of the forged articles from offering them in England, and the Proprietors would point out to the Trade in Canada and the United States that they have a simple means of judging the genuineness of HENRY'S MAGNESIA, on examination of the true label, which is reproduced in facsimile in the following engraving:—



Merchants who find they have false goods are invited to communicate with

## THOS. & WILLIAM HENRY, MANCHESTER,

Or their Sole Agents for the United States and Canada,

### MESSRS. W. H. SCHIEFFELIN & CO., 170-172 William Street, NEW YORK,

Who are authorised to take legal proceedings against all infringements brought to their attention.

# EMERSON'S BROMO-SELTZER CURES ALL HEADACHES.

The most famous and successful HEADACHE REMEDY in the UNITED STATES, [and is prepared only by the Emerson Drug Co. (Lim.), Baltimore, Maryland, U.S.A.]

EMERSON'S BROMO-SELTZER is put up in three sizes. The small, or sample size, retails at  $7\frac{1}{2}d.$ , the medium size at  $1s. 1\frac{1}{2}d.$ , the large size at  $2s. 3d.$

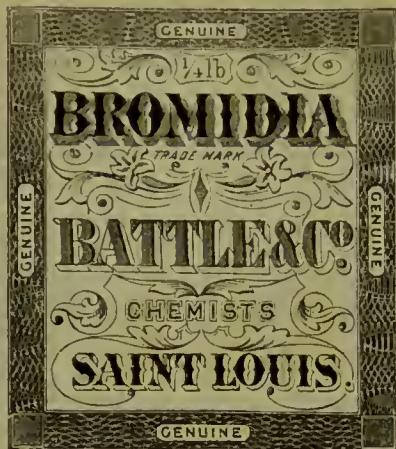
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NOVELTIES in advertising matter.—BOOKS, SHOW CARDS, TAPE MEASURES, SAMPLE CASES FOR COUNTER, &c., &c., supplied with orders for 1 dozen and upwards.

Price Lists and particulars on application. Trade supplied through all Wholesale Houses or direct from

BRITISH DEPOT—46 HOLBORN VIADUCT, LONDON, E.C.





# BROMIDIA

Is sold in  $\frac{1}{4}$ -lb. Bottles 4/6, per doz 40/-;  
and  $\frac{3}{4}$ -lb. Bottles 11/-, per doz. 108/-

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BATTLE & CO., ST. LOUIS, U.S.A.

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General Depot for Great Britain—

**ROBERTS & CO.**

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Cannot gain the confidence of their customers by serving them with a ready prepared and labelled parcel (like a patent medicine) in filling the prescription of a Physician. Injury is done to the Physician, as well as to the reputation and pocket of the Chemist who takes such action. The Chemist should supply the most accurately prepared, beautifully finished products, from the purest materials, in the form that receives the endorsement of the Physician. The successful Manufacturing Pharmaceutical Chemist, with a large output, can secure the best chemical ability, the best and purest materials, and will be able to supply standard Pharmaceutical Preparations, accurate in dosage, elegant in appearance, beautiful in finish, at less cost to the Retail Chemist than in his smaller way he could produce them himself. Messrs. JOHN WYETH & BROTHER, Manufacturing Pharmaceutical Chemists, Philadelphia, U.S.A., and 30 Snow Hill, London, E.C., have for nearly a half-century studied closely the needs and wants of the Medical Profession and of Retail Chemists. The Pharmaceutical Products of this house are noted for their

## PURITY, ACTIVITY, AND BEAUTY.

They are sold in such sized parcels, and at such prices, as enable the Retail Chemist to answer a prescription and make a prescription profit. Messrs. JOHN WYETH & BROTHER were the Pioneer Manufacturers in Pharmaceutical Chemistry, and they present the results of experience, intelligence, the most complete appliances, and a superintendence of the highest commercial integrity, in their list of elegant Pharmaceutical Preparations, among which especial attention is called to the following :—

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July 28, 1894.

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MANUFACTURED OR SELECTED BY

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STABLISHED 1798.

OILS BAY, CARAWAY, CLOVES, CUBEBS, PEPPERMINT, SANDAL,  
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WORMWOOD AND MANY OTHERS.

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AGENT FOR THE CONTINENT OF EUROPE—

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# LEICESTER PEARL COATED PILLS

"**LEICESTER** may be regarded as the Headquarters of the Pill Industry in England."—*Chemist and Druggist*, January 30, 1892.

"The manufacture of these Pills on a grand scale has been reserved for **LEICESTER**, where it has been cultivated for over twenty years."—*Manufacturing Chemist*, April 22, 1893.

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"**MR. T. HOWARD LLOYD** WAS FOR EIGHTEEN YEARS A PARTNER IN THE FIRM OF JOHN RICHARDSON & CO., WHEN HE PERSONALLY INTRODUCED THE PEARL COATED PILLS TO LEICESTER; AND AS HE HAD DURING ALL THIS TIME PRACTICAL EXPERIENCE OF PILL-MAKING, HE MAY BE SAID TO HAVE BEEN AT IT FOR TWENTY YEARS."—*Manufacturing Chemist*, April 22, 1893.

The *Lancet*, April 9, 1892:—"The coating gradually disintegrates in flakes even when placed in cold water."

The *British Medical Journal*, February 13, 1892:—"The Pearl Coated Pills prepared by Messrs. T. Howard Lloyd & Co. possess a very elegant and finished appearance."

**T. HOWARD LLOYD & CO.**  
Wholesale Druggists and Manufacturing Chemists,  
**86 HIGH STREET, LEICESTER.**

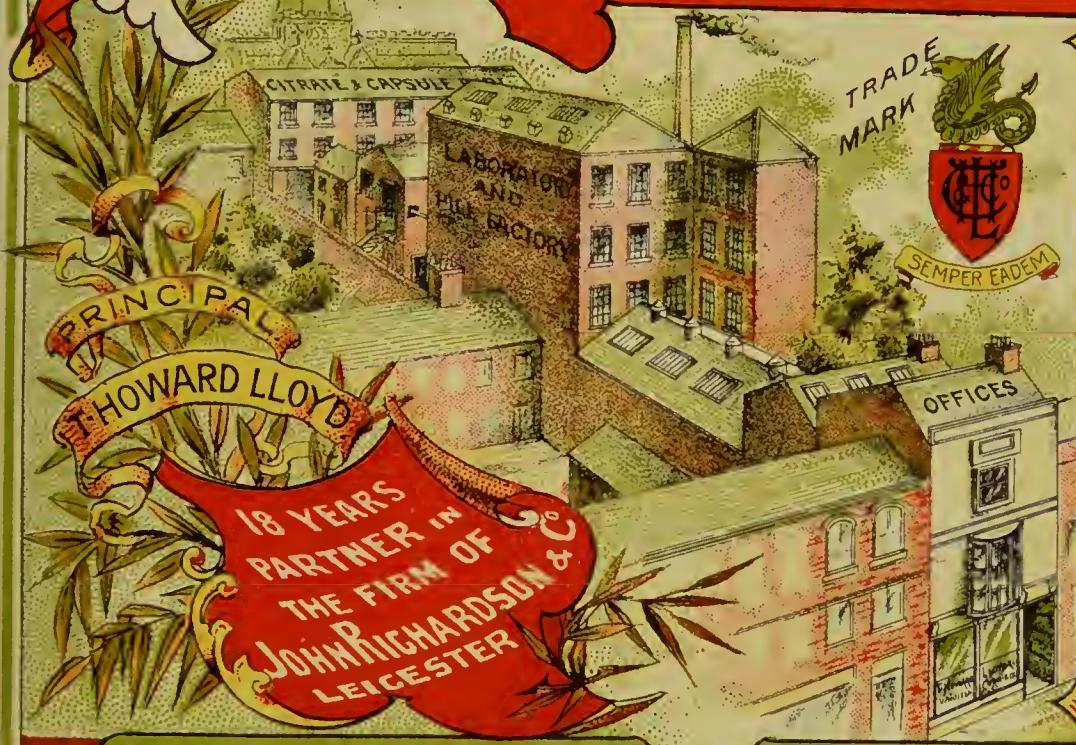
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SUPPLEMENT TO THE CHEMIST AND DRUGGIST.

Wholesale & Export Druggists  
&  
Manufacturing Chemists

# J. HOWARD LLOYD & CO

High St. & Townhall Ln.  
Leicester



ORIGINATOR OF  
THE  
"LEICESTER"  
SOLUBLE  
PEARL-COATED  
PILLS

WHICH ARE KNOWN  
ALL THE WORLD  
OVER  
BEING ADAPTED FOR  
ALL CLIMATES  
AND CONDITIONS

Manufacturers OF ALL KINDS OF Pharmaceutical PREPARATIONS

Concentrated Infusions.  
Concentrated Liquors for  
Tinctures and Syrups.  
Fluid Extracts.  
Concentrated Waters.

CHEMISTS WILL GREATLY  
DELIGHT BY SENDING FOR SAMPLES & LISTS

Granular Effervescent  
Preparations.  
Compressed Tablets.  
Tinctures & Alcoholic Preparations.  
In Bond for Exportation.  
EVERYTHING OF THE HIGHEST QUALITY

# LLOYD'S Soluble Pearl-Coated Pills.

## SPECIAL NET CASH LIST.

The following Formulae are offered to the trade in Ten Gross and One Pound Tins for CASH WITH ORDER.

					Per Gross.	Per lb.	7 lbs. per lb.
Pil. Aloes et Ferri, P.B.	...	...	...	...	6d.	4/-	3/6
" Colocynth. Co., P.B.	...	...	...	...	11d.	8/-	7/6
" Colocynth. et Hyos., P.B.	...	...	...	...	1/1	9/-	8/6
" Rhei Co., P.B.	...	...	...	...	6d.	4/-	3/6
<b>APERIENT.</b>							
105 Ext. Aloes Aquos 3 <i>i</i> ; Cambog. gr. iv.; Pulv. Jalapæ gr. viii.; Pulv. Coloc. gr. vi.; Hyd. Subchlor.; Pulv. Sapo. Hyspan. aa. gr. iv.; Gingerin. gr. ij.; ft. Pil. xij.	...	...	...	...	6d.	4/-	3/6
Each Pill contains $\frac{1}{3}$ gr. of Calomel.							
106 As No. 105, with 1 gr. Calomel in each Pill	...	...	...	...	6d.	4/-	3/6
107 As No. 105, without Calomel	...	...	...	...	6d.	4/-	3/6
110 Ext. Aloes Aquos gr. ij.; Pulv. Cambogia gr. ss.; Pulv. Jalapæ gr. i.; Pulv. Colocynth.; Hyd. Subchlor.; Pulv. Saponis aa. gr. ss.; Ol. Menth. Pip. gr. $\frac{1}{16}$ ; Ol. Caryoph. gr. $\frac{1}{8}$	...	...	...	...	6d.	4/-	3/6
<b>ANTIBILIOUS.</b>							
62 Hydrarg. Pil. gr. i.; Ext. Coloc. Co.; Pil. Rhei Co. aa. gr. ij.	...	...	...	...	1/-	8/6	8/6
262 Podophyllin gr. $\frac{1}{2}$ ; Ext. Coloc. Co. gr. ij.; Ext. Hyoscy. gr. i.	...	...	...	...	1/2	10/-	9/6
<b>COUGH.</b>							
164 Pulv. Ipecac. Co.; Pulv. Gum. Ammon. aa. gr. iss.; Pulv. Scillæ gr. i.; Saponis Hyspan. gr. ss.	...	...	...	...	7d.	5/-	4/6
167 Pulv. Ipecac.; Pulv. Scillæ aa. gr. $\frac{1}{4}$ ; Pulv. Capsici; Pulv. Opii aa. gr. $\frac{1}{4}$ ; Pulv. Gum. Ammon.; Ext. Conii aa. gr. i.	...	...	...	...	8d.	5/6	5/-
<b>CASTOR OIL.</b>							
289 Rhei Pulv.; Potass. Sulph. aa. gr. iss.; Pulv. Sapo. Hysp.; Ol. Ricini. aa. gr. ss.; Ol. Crotonis gr. $\frac{1}{16}$ .	...	...	...	...	6d.	4/-	3.6
<b>TONIC.</b>							
370 Ferri Sulph.; Pot. Carb. Pur. aa. gr. iiiss. ( <i>Bland's Formula</i> .)	...	...	...	...	5d.	3/6	3/-
371 Ferri Sulph. gr. iiiss.; Pot. Carb. Pur. gr. iss.; Sacchari gr. i. ( <i>Bland's Formula, Martindale's improved</i> ).	...	...	...	...	5d.	3/6	3/-
<b>"LITTLE" APERIENT.</b>							
458 Aloin. gr. $\frac{1}{10}$ ; Podophyllin gr. $\frac{1}{5}$ ; Ext. Hyoscy. gr. $\frac{1}{20}$ ; Jalapin. gr. $\frac{1}{10}$ ; Ext. Nucis. Vom. gr. $\frac{1}{20}$ ; Capsicin. gr. $\frac{1}{20}$ .	...	...	...	...	5d.	20/-	19/6
<b>"LITTLE" ANTIBILIOUS.</b>							
462 Jalapin. gr. $\frac{1}{16}$ ; Aloin. gr. $\frac{1}{8}$ ; Leptandrim. gr. $\frac{1}{16}$ ; Podophyll. gr. $\frac{1}{8}$ ; Pulv. Cambog. gr. $\frac{1}{32}$ ; Ext. Hyos. gr. $\frac{1}{8}$ ; Capsicin. gr. $\frac{1}{64}$	...	...	...	...	5d.	20/-	19/6

Samples of the above with our Complete List sent on application.

## LLOYD'S COMPRESSED DRUGS.

### SPECIAL NET PRICES FOR CASH.

	1 lb.	7 lb.		1 lb.	7 lb.	
Borax	1/2	1/-	Compound Sulphur (Garrod's)	...	1/2	1/-
Chlorate of Potash	1/2	1/-	Soda and Ginger	...	1/2	1/-
Chlorate of Potash and Borax	1/2	1/-	Soda Mints	...	1/2	1/-
Cocaine, Chlorate of Potash and Borax	3/-	2/10	Quinine (Bisulphate), gr. ii	...	20/-	19/-

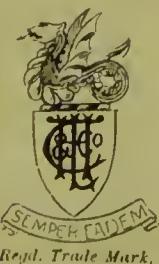
### IN TINS FREE.

Chlorate of Potash, and Chlorate of Potash and Borax, in 3d. and 6d. boxes, 15/- and 30/- per gross.  
All kinds of Tablets in 6d. and 1/- Metal Screw Cap Bottles, 3/6 and 7/- per dozen.

Order of Half-a-gross of one kind with buyer's name on label if desired.

T. HOWARD LLOYD & Co.,

HIGH STREET & TOWN HALL LANE, LEICESTER.



Regd. Trade Mark.



# The "Colloid" Capsules.

ONCE INTRODUCED, WILL ALWAYS BE ASKED FOR

**C**HESSE Capsules are prepared specially for those chemists who require a thoroughly satisfactory article combining accuracy of measurement, and ingredients of the highest quality, together with neatness and elegance of finish. They are far superior to any in the market, and chemists who wish to maintain their reputation will do well to stock none but those which bear the name "COLLOID."

These Capsules are supplied in any quantities, in bulk and also in superior purple shouldered boxes, elegantly labelled as "The 'Colloid' Capsules," but without our name; or if half-gross boxes are ordered, with the customer's own name and address.

## → SPECIMEN PRICES. ←

	Per 1,000.	24 in each.	36 in each.	Per Dozen Boxes.
Castor Oil (15 min.)	12/-	7/-	8/-	
Cascara (30 min.)	14/6	7/-	10/-	
Copaiba (10 min.)	10/-	6/-	7/-	
Copaiba and Cubeb	18/-	7/-	10/-	
Sandal Wood Oil, English (10 min.)	38/-	13/-	18/-	
Turpentine (10 min.)	10/-	5/6	7/-	

SEND FOR COMPLETE LIST AND SAMPLES.



→ LLOYD'S ←

## "Bi-Conical" Capsuled Horse Balls.

(TASTELESS)

**W**E are now making our Capsuled Horse Balls according to the above improved shape, the advantage of which is that they are swallowed with the greatest ease, and as both ends are conical in shape, they can be introduced either way.

These Horse Balls are enclosed in a capsule of gelatine, which, if kept in a perfectly dry place, preserves the mass unimpaired for a very long time, and by retaining the moisture prevents the Balls from becoming hard, brittle, and partially insoluble. Each formula being numbered, it is only necessary in ordering to state the number. The Balls will be put up in boxes, each containing six Balls, and the number of the formula will be printed on each Ball. Chemists can, however, have their name on each Ball if not less than one gross is ordered.

For Formulae see Price Current.

			Per Doz.	Per Gross.
Alterative Balls	...	...	2/-	21/-
Cough	,,	...	2/-	21/-
Cordial	,,	...	2/-	21/-
Diuretic	,,	...	1/9	18/-
Fever	,,	...	2/-	21/-
Physic	,,	4 dr.	2/-	21/-
	,,	5 dr.	2/6	27/-
	,,	6 dr.	2/9	27/-
	,,	7 dr.	3/-	33/-
Tonic	,,	...	2/-	21/-
Worm	,,	...	3 -	33 -

# GRANULAR EFFERVESCENT Preparations

OUR OWN  
MANUFACTURE

WE beg to call special attention to our manufacture of the above. To meet all requirements we make several qualities, but in each kind the very best English chemicals only are used, the difference being in the proportions.

Our A & B qualities are equal to any in the trade, and will bear favourable comparison with those for which far higher prices are charged. C & D qualities are well suited for general sale, and are far superior to the cheap kinds which are largely sold.

The following prices are for ordinary quantities, but we shall be glad to give special NET prices to large buyers. In making enquiry buyers should indicate the probable quantity required.

## CHLORATE OF MAGNESIA

In bottles,  
1lb. & upwards. In 28lb. tins.  
Per lb. Per cwt.

Quality A, very superior,			
Blue Label	-	1/6	-
Quality B, superior,			130/-
Pink Label	-	1/-	-
Quality C, usual quality,			75/-
Yellow Label	-	10d.	-
Quality D, good saleable,			70/-
White Label	-	9d.	-
Raspberry flavour, tinted	1/2	-	65/-
Lime fruit flavour	-	1/2	-
Lemon flavour	-	1/2	-

## 6oz. LETTERED CHELTENHAMS

(WITH BOXWOOD TOPS)

C Quality 42/-, D Quality 36/- per gross, net.

FREE SAMPLES ON APPLICATION.



## EFFERVESCENT FRUIT SALINE OR HEALTH SALT

THIS popular and valuable preparation is carefully prepared with the best ingredients and forms a most agreeable, cooling and refreshing draught, of special value in disorders of the Stomach and Liver.

In 6oz. and 8oz. Patent Stoppered Bottles, each enclosed in a cartoon, and covered with an elegantly designed wrapper, WITHOUT NAME, 6/- and 7/6 per dozen. Buyers of 3 doz. of either size can have their name and address on label without extra charge.

The above is also put up in 4oz. tins, at 36 per doz., 38/- per gross.



# WOODWARD'S "GRYPE - WATER"



**THE MOTHERS' BOON.  
THE BABIES' BLESSING.**

Is approved by MEDICAL OPINION  
in both ENGLAND and AMERICA as a  
SAFE and EFFICACIOUS MEDICINE  
for INFANTS and CHILDREN.

**W. WOODWARD**  
CHAUCER STREET,  
NOTTINGHAM, ENGLAND.

## A Perfect Fac-simile.

On the front page are given fac-similes of WOODWARD'S "GRIPE WATER" wrapped and unwrapped. Do you know it? Do you sell it? From a business point of view that is an important question for you.

Think of it. Sell it, do not attempt to imitate it. That will be bad for you, unfair to the Babies, and annoying to the Mothers.

A Baby may, more or less, be a fac-simile of its father, but you cannot make a fac-simile of WOODWARD'S "GRIPE WATER." It would not pay you to try, but it will always pay you to sell WOODWARD'S. Mothers ask for WOODWARD'S because it is good for their Babies, and they are determined to have WOODWARD'S only.

Price 1/1½ per Bottle, yielding good profits.

DO NOT IMITATE. Sell the original made only by

W. WOODWARD,  
CHAUCER STREET,  
NOTTINGHAM.

---

WOODWARD'S "GRIPE WATER" is Stocked by every Wholesale Patent Medicine House in Great Britain, the United States, Australia, South Africa, &c. &c.

---

Various Advertising Matter will be forwarded, Carriage free, on application to the above address.

SUPPLEMENT TO THE CHEMIST AND DRUGGIST, JULY 28th, 1894.

ESTABLISHED OVER 100 YEARS.

Drugs,

Chemicals,

Pharmaceutical Preparations,

Coated Pills,

Medicated Lozenges,

---

EVANS, GADD & Co.,

EXETER.

---

Patent Medicines,

Perfumery,

Mineral Waters,

Druggists' Sundries,

And Every Trade Requisite.

---

MONTHLY PRICE LIST SENT ON RECEIPT OF TRADE CARD.

[SEE OTHER SIDE.]

IMPORTANT NOTICE.

**E**VANS, GADD & CO.

Beg to inform their friends that they have just completed  
Extensive Alterations & Additions to their Drug Warehouse,  
and that their Laboratories have been

**ENTIRELY RE-FITTED**

*By Messrs. Bennett, Sons & Shears, Limited, Engineers, London.*

E. G. & Co. are therefore in a better position than they have ever been before  
for supplying all

**Pharmaceutical Preparations,**

And would especially solicit enquiries for the following:-

Concentrated Infusions, Liquors & Mixtures,

Granular Effervescent Preparations,

Tinctures, Liniments & Medicated Spirits.

**E**VANS, GADD & CO., EXETER.

All Preparations  
prepared in accordance  
with the  
British Pharmacopœia,  
unless otherwise  
stated.



SECTION OF LABORATORY, LOOKING EAST.

# EVANS, GADD & Co., EXETER.



CRUSHING AND GRINDING DEPARTMENT.

Drug

Grinding

undertaken for the  
Trade.



**EVANS, GADD & CO.,**

**EXETER.**

# **STATIONERY DEPARTMENT.**

*Wrapping  
Papers.*

- White.**
- White Brown.**
- Thin Brown.**
- Bright Blue.**
- Seidlitz Blue.**
- Grease Proof.**
- Corrugated.**



Sealing Wax, Twines,

Circular Filter Papers, Bags,

Account & Prescription Books,



Envelopes, &c., &c.

PLEASE WRITE FOR SAMPLES AND QUOTATIONS.

**EVANS, GADD & CO., EXETER**



THE OLD ESTABLISHED  
NEVER FAILING  
REMEDY.

Beware of Imitations.

This wonderful and efficacious Remedy has been before the Public for upwards of 150 YEARS, and still retains its superiority notwithstanding the endless number of its rivals and imitators.

## Dr. JOHN HOOPER'S FEMALE PILLS

THESE PILLS, by long experience in Private Practice, have been found the most useful Remedy against those general Complaints the Female Sex are subject to. They cleanse, purify, and cause a free circulation of the Blood, when in a manner stagnated; open those Obstructions which they are so liable to, and bring Nature into its proper Channel; whereby Health is recovered, and the Patient, who before looked like Death, restored to a lively complexion. They are the best Medicine ever discovered for young Women of a pale sallow Complexion, or when Bilious, or afflicted with what is commonly called Chlorosis, or Green Sickness, which two or three Boxes seldom fail of curing. They are also excellent for Palpitation of the Heart, Giddiness, Loathing of Food, bad Digestion, Pains of the Stomach, Beating of the Arteries of the Neck, Short Breath upon every little motion, Sinking of the Spirits, a dejected Countenance, and dislike to Exercise and Conversation. For all which disorders they are a most excellent and successful Remedy, and are to be given from Seven Years old and upwards. They are also equally proper for Married Women, and ought always to be taken One Month after Delivery; for they cleanse the Body, and Purge off those gross humors which, when retained, generate numerous Diseases, and render women unhealthy all their lives. They should also be taken by Women at that period which is usually called "The Turn of Life," to prevent those Complaints which often attend them at that time. These Pills have likewise been found particularly beneficial in all Hypochondriac, Bilious, Hysteric, or Vapourish Disorders, for they exceedingly Strengthen the Nerves, throw off all gross Humours tending to melancholy, invigorate the sinking Spirits, and cause a universal cheerfulness, and activity of mind and body.

**CAUTION.**—IT is very necessary, considering the many imitations, that purchasers should be certain they get the Genuine Pills, which are made by the descendants only of the late Dr. JOHN HOOPER. Purchasers may rely upon this if they will make sure that the name, Dr. JOHN HOOPER is on the Government Stamp in White Letters, thus

DR JOHN HOOPER

To be obtained from all Chemists in the town and neighbourhood.

Q. 2.  $\frac{d}{dx} \left( \frac{1}{x^2} \right)$

H

W

## "Our Little Beauties"

### Feeding Bottles. . .

#### White Glass.

874. Screw neck, glass union, 2 brushes, pare 1 in., with very attractive label	1 doz.	5/-
875. Screw neck, glass unions, 6 in. tube, each bottle in bag	3/-	3/-
876. " " " do. " do. 1 doz. in wood partitioned box	3/-	3/-
877. Box top, wood union, each in bag	2/-	2/-
878. " " " do. 1 doz. in wood partitioned box	2/-	2/-

#### Green Glass.

879. Screw neck, wood unions, each bottle in bag	2/-	
880. " " " " " do. 1 doz. in wood partitioned box	3/-	
881. Box top, wood union, each bottle in bag	2/-	
882. " " " " " do. 1 doz. in wood partitioned box	2/-	

#### Quinine Tint.

883. Screw neck, glass unions, each bottle in bag	3/-	
884. " " " " " do. 1 doz. in wood partitioned box	3/-	

#### The Anti-Corrosive.

885. Hard-rubber bottles, large—amless teat, brush, & complete	13/-	
---	------	--

#### Special 6d.

886. Glass, screw neck, glass union, each in box with tube and bottle brush	3/-	
--	-----	--

All fitted with Black Tubing and Seamless Teats.

# Leaders!

will interest you, and we hope, lead you to read this  
ask for copy of our Full List. Our Goods are novel, well put up, and  
LEAD to increased profit, which, we believe, you want.

#### THE PICCANNINIES FEEDING BOTTLES. . .

White Glass Screw Neck, Black Rubber, bear no  
Maker's Name, and are the Cheapest Feeders offered 32 - gross  
Each in box, with tube and bottle brush, strikingly  
labelled. . . 4/- 1 oz.

#### THE EUREKA SPATULA. . .

A Steel Spatula coated with Vulcanite.

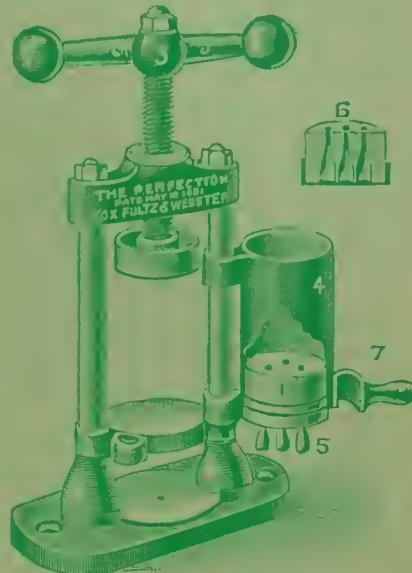
The Ideal Spatula. The great advantages are that they

- Do not Rust,
- Are easily Cleaned.
- May be used for any Ointment, such as
- Mercurial, &c.
- Are Cheap, owing to their durability.
- The Handles are balanced and very strong.

We would like you to try them, and are certain you will be charmed with them.

3	4	5	6	7	8	9	10	inch.
17/-	20/-	23/-	28/-	36/-	43/-	50/-	62/-	doz.

#### PERFECTION SUPPOSITORY MACHINE. . .



Makes Suppositories by Cold Compression,  
Makes Suppositories well,  
Makes Suppositories without trouble.  
All Suppositories should be made by them.  
*Detailed Pamp'let on application.*

Price, complete with 4 sets of Dies, 52/- 6

We don't lead Soldiers or Sailors,  
but we try to lead you to read this  
and the three following pages. They

#### CAPSULES. . .

##### Flexible Gelatine.

Balsam Copalba, 36 in. oval box	5/3 doz.	
Santal Oil, English, 24 in round box	18/-	

#### COMPRESSED TABELLÆ of PURE DRUGS. . .

Prepared with greatest care from the purest  
ingredients, guaranteed our own make.  
In pocket tins, labels being no name.

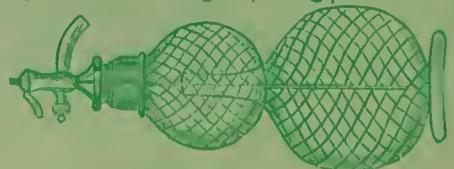
Antipyrin	7/-	doz.
Cascara Sagrada, 4 grns. Ext.	3/-	"
Pot. Chlor.	1/6	"
" " & Borax	1/6	"
" " " & Cocaine	2/-	"
Quinine	4/-	"
Soda Mint	1/6	"
" " Balsb.	1/6	"

*Detailed List of Tab. in pocket flask and in  
bulb on application.*

HOCKIN, WILSON & Co., 13-16, NEW INN YARD, 186a, TOTTENHAM COURT RD., W.

Co

# Summer Wants.



# HOCKIN, WILSON & Co.

SELTZOGNES. . .

## Fevre's System.

Wire covered	3	5	8 pint.
10 ft.	10/3	15/6 each	
11 ft.	11/3	17/6	1 dozen.
12 ft.	12/3	18/6	

CHARGES. . .

12 in a box. Full weight.  
3 5 8 pint.  
13 6 19 24/- doz. boxes

THE ACME LLOOFAH BATH MAT.

**PURE DALMATION.**—In Decoction of Tinsel increase in heat.

Ornament	Decorated tiles	Gloss in box	Ornament	Gloss
3d. Tins, attractively labelled	... 6d 1f	... " " " " " "	revolving top	... 24 40
				" "
				" "

EFFERVESCENT CIT. MAGNESIA.

<b>Bold Granules.</b>	1 lb. 1 oz. 8 oz. "
Finest quality, by settle.	
Second class, very good.	
Bottled. White glass round bottles.	
1 lb. 3 oz. 1 lb. 6 oz. 1 lb. 10 oz.	
(Actual weight.)	
6 oz. Cheltenhams	3 oz. "

卷之三

1. Reheated 12ds.  
2. Revolving " "  
3. " " "

## SALINE GRAPE JUICE . . .

Car rolls in proper direction. A Clim. tr. Patent Stepper Ch - thins & sox. 11 in 1. Is each borke in ham some Cartoon. 8 - 0. 1 3 - 11. self openning 3 - 11. Bul. 7 1bs. thin fine 11 - 11. 11. 11. 11. 11.

CARBOLIC

## DISINFECTION POWDER . . .

"Acme," Brand

1d.	Packet, strictly written,	6	gross
	$\frac{1}{2}$ gross in box		
6d.	Decorated Tins, small size	3	do
1 <i>d.</i>	" " extra large	6	do
			do

The Tin, *bar niv c. on ip v. v. v. v.*

## CARBOLIC ACID, LIQUID.

Water White. 97 to 98

In Round Edge Actinotrichon B,  
with plug stoppers  
Each in Cartoon

## SEIDLITZ POWDERS . . .

Don't waste time putting these up.

Best English Acid and Household's Tartar, will  
wash pediculosis. It is now far weightier  
and guaranteed B.I.

EFFERVESCENT CIT. MAGNESIA.

<b>Bold Granules.</b>	1 lb. 1 oz.
Finest quality, by settle.	8 oz. 2 oz.
Second do., very good, by settle.	8 oz. 2 oz.
Bottled. White glass round bottles.	
1 lb. 3 oz. : 1 lb. 6 oz. : 1 lb. 10 oz. doz.	
(Actual weight.)	3 lbs. 10 oz.
6 oz. Cheltenham's	

## SALINE GRAPE JUICE. ::

Car talk prepared and written by Comte.  
Patient stopped Ch - ~~the~~ ns Soc. 11 in 1-1-  
each borle in ham some Cartoon 8 - ch -  
1 1/2 lb. self opening tin 3 - 1/2  
Bulb, 7 lbs. this fine  
as well as the one Comte

## MENTHOL CONES.

Sole Agents for the United Kingdom and Colonies.



## GENUINE EAU DE COLOGNE

The Patterns are so numerous that we only here describe a few of the most saleable.

TOOTH POWDER.



We measure the mean and median

No.	Description	Poz.
217A.	Glass Show Bottle, with foot.	9 fl. ...
214V.	Ditto, do.	1 fl. ...
220.	(Cone Shape, Giant size Cone ...	1 fl. ...
221.	Large Flat Draughtsman, very large Cone, 120 gr.	1 fl. ...
2201.	Cone Shape, extra large ...	6 fl. ...
207F.	Specially Flat Draughtsman, for Pocket	6 d.
207F1.	Ditto, do., do., large size ...	1 fl. ...
222.	Elegantly Cut Glass Show Bottle, 3 cuttings ...	1/6 ...
202C.	Skittle Shape, Giant size ...	1 fl. ...
224.	Smelling Bottle and Menthol combined	1 fl. ...

PUFF CASE. . .



BECAUSE IT IS THE BEST  
No Better Quality can be had,

**BECAUSE IT IS THE BEST.**

2	Bottles	... ...	<u>8/-</u>	dor.
3	"	long green, with Sprinklers	<u>9/-</u>	:
4	"	"	<u>14/-</u>	:
4	"	Wi-kere i	<u>16/-</u>	:
1	pin	"	<u>24/-</u>	:
1	"	"	<u>47/-</u>	:
2	"	"	<u>93/-</u>	:
		Bottle forward	on receipt of 2d.	to defray Postage.

FLORAL CACHOUS. ::

**Finest Quality.**  
In 1-lb. box-top  
Violet, Heliotrope,  
Ess. Bouquet

THE WINDS ROSE, 1915

217F. Glass Show Bottle, with foot  
**6d. Large Cones.**—Polished Willow  
 88c. Pedestal Shape ... 1 doz.  
 161s. Acorn, with foot, ditto ... 42  
 Our Cards are the best and most attractive in  
 Cones attached with Elastic.

THE WINDS ROSE, 1915

217F. Glass Show Bottle, with foot  
**6d. Large Cones.**—Polished Willow  
 88c. Pedestal Shape ... 1 doz.  
 161s. Acorn, with foot, ditto ... 42  
 Our Cards are the best and most attractive in  
 Cones attached with Elastic.

## CHEAP MENTHOL CONES . . .

(guaranteed all Pure Menthol).

<u>CHEAP MENTHOL CONES.</u>	
In Bottles as Block, Carbolic Rose and Quinine, with Spoon for applying the Powder	8 = doz.
guaranteed all Pure Menthol.	
<b>1d. Cones.</b> Willow Boxes.	
Bottle Shape...	one Kind or Assorted
Barrel "	{ 3 doz. on Card,
" " "	{ 73 gross,
" " "	... ...
<b>2d. Cones.</b> = Polished Willow Boxes.	
Bullet Shape...	2 doz. on Card.
Barrel "	{ 16 gross,
" " "	... ...

Court Road, London, W.



H

W

# Daily Wants.

## LICORICE POWDER

### Compound.

Prepared from purest drugs strictly in accordance with B.P.

Labels bear name, only "ACME BRAND."

4 oz. box top Kalis 3/- doz.  
8 " " " 5/- "

1 lb. boxes... 7/- gross  
Prices in brackets. Monthly Drug List.

## NASAL DOUCHE.

As block.

Each in box 2/- each



## LAVENDER

## WATER.

In Conical Dark Green Bottles,  $\frac{1}{2}$  oz., with Sprinkler, 1 doz. on attractive Card 2/- doz.

Do., do., do., 3 oz., not Carded 6/- "

## EXT. MALT.

Carefully prepared in vacuo, and a great improvement.

1 lb. Bott.	9/- doz.
1 lb. " "	6/- "

## EXT. MALT, with COD LIVER OIL.

1 lb. Bott.	10/- doz.
1 lb. " "	7/- "

Each bottle in Cartoon, very attractive coloured label 6 doz. with buyer's name on.

## RESPIRATORS.

1212A. Mackenzie's Oro-Nasal, each in box 2/- each



Show Case, containing 1 doz., as block  
 $\frac{1}{2}$  doz. each, 1206, 1207;  $\frac{1}{2}$  doz. 1208;  $\frac{1}{2}$  doz. each, 1209, 1210, 1211, 1212. 12/- each

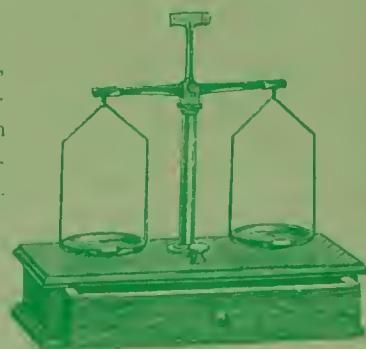
1206. Cork Respirators	5/- doz.
1207. Perforated Silver Plated	7/- "
1208. Silver-plated Gauze, two thicknesses	10/- "
1209. Double-plated Gauze and perforated plate above	16/- "
1210. Ditto, ditto, below	16/- "
1211. Gold-plated Gauze and perforated plate above	23/- "
1212. Ditto, ditto, below	23/- "

## SCALES.

Special Dispensing.

Nickle-plated pillar, beam and pans on polished stand with drawer, lever movement, extremely delicate.

20/- pair.



## MUSTARD LEAVES

Free from Capsicin.

1 oz. Printed in a very coloured Show Card.

3/- oz.

## CAMPHOR ROLLS.

Beautifully white and will not become rancid.

Labels bear no name, only Brand, "The Acme."

1d. size,  $\frac{1}{2}$  gross in glass top box 5/- gross

2d. size,  $\frac{1}{2}$  gross in glass top box 11/- "

## CAMPHOR ICE.

In Tin Boxes, printed black and gold, no name, only "Acme Brand."

1708A. To retail at 1d. 8/- gross

1708I. To retail at 2d. 14/- "

## BAY RUM.

3 oz. Pan-lined Flats 4/- doz.

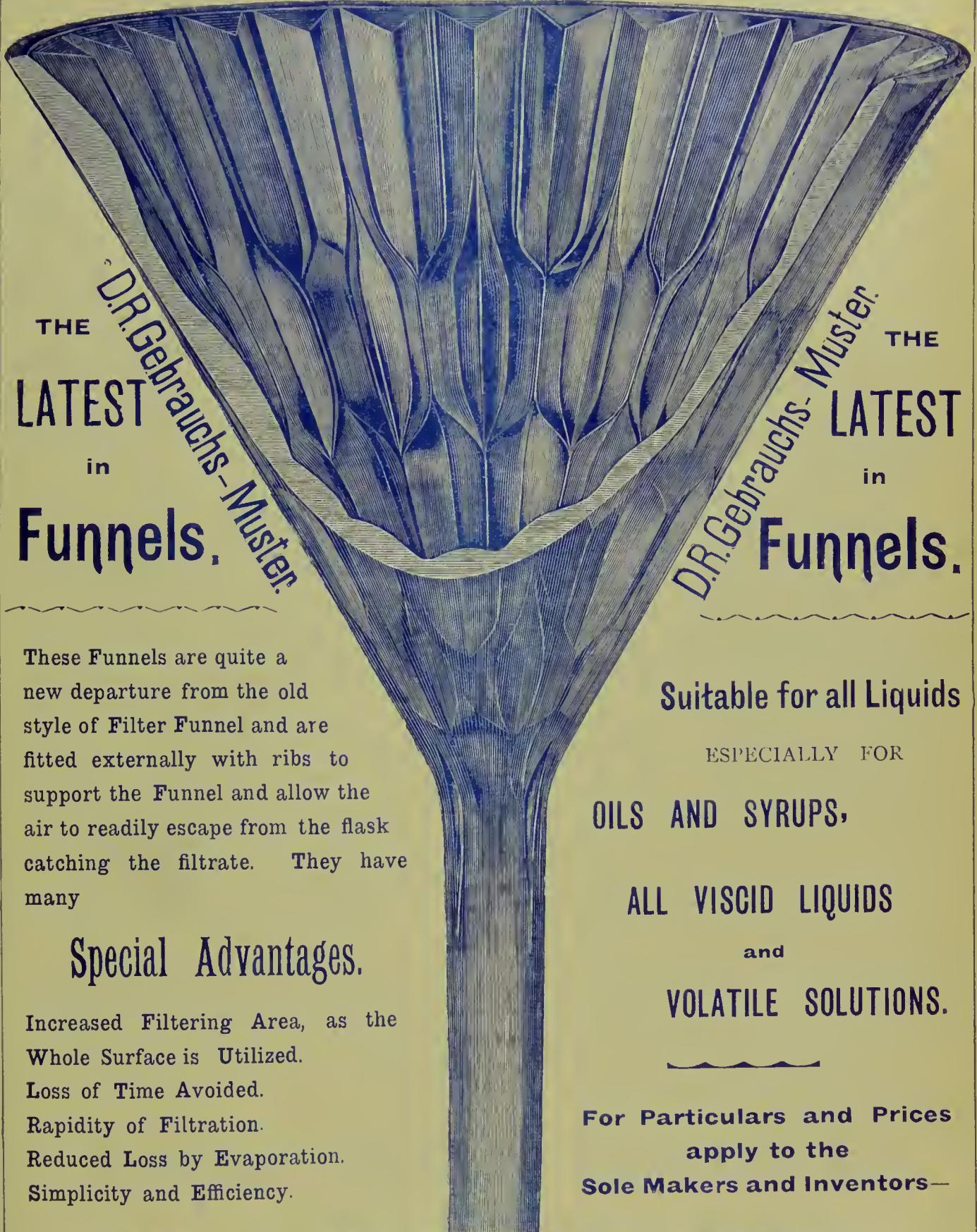
8 " " " 8/- "

*Neatly labelled without n.t.c.*

HOCKIN, WILSON & Co., 13-16, NEW INN YARD, 186a, TOTTENHAM COURT RD., W.

New Accounts must be accompanied by Remittance or London Reference.

Co



These Funnels are quite a new departure from the old style of Filter Funnel and are fitted externally with ribs to support the Funnel and allow the air to readily escape from the flask catching the filtrate. They have many

### Special Advantages.

- Increased Filtering Area, as the Whole Surface is Utilized.
- Loss of Time Avoided.
- Rapidity of Filtration.
- Reduced Loss by Evaporation.
- Simplicity and Efficiency.

Suitable for all Liquids

ESPECIALLY FOR  
OILS AND SYRUPS,  
ALL VISCID LIQUIDS  
and  
VOLATILE SOLUTIONS.

For Particulars and Prices  
apply to the  
Sole Makers and Inventors—

**VON PONCET GLASS WORKS.**  
**54, KOPNICKER STRASSE, BERLIN, S.O.**

# A NEW INHALER.

At the 56th Annual Congress of the British Medical Associations, in August, 1888, one of the best known Climato-Therapeutists—Dr. CHARLES THEODORE WILLIAMS, M.D., F.R.C.P., of London—advocated the local treatment of Tuberculosis by means of inhalation, and observed that the prospects of success in this treatment increased in proportion as the remedial substances employed were more easily converted into the gaseous state. In the *Lancet*—Nos. 11 and 12—Dr. L. BRADDON also writes from the standpoint of an enthusiastic advocate of this Inhalation System. This author, encouraged by the successes obtained by him with Inhalations of Peppermint Oil in Pulmonary Phthisis, even goes so far as to express the belief that in future hundreds of thousands of lives may be saved by the System of inhalation. During the last few years there has been a general increase in the popularity of the Inhalation System, especially since the discovery of an Inhaler which fulfils all practical requirements, and which is especially suited for the inhalation of essential oils, whereas formerly the only Inhalers available were generally of an expensive character and were only imperfectly suited to their object. The new Inhaler, to which attention is now called, is a small flat bottle portable in the breast pocket, and which can therefore be easily carried by the patient on all his walks. It may be used without attracting special attention.

Besides being extremely handy this apparatus has the advantage of extreme economy in use, for the bulb at the bottom of the bottle (which serves as a receptacle for the medicament) is of a very small size. The air-tube is widened into a globular shape just above the bulb at the foot of the bottle, the object being to divide the waves that bubble up when inhalation takes place through the tube into the finest possible particles, which will sufficiently saturate the air to be inhaled. Another very important advantage of the widening of the tube is that it prevents the fluid from being suddenly ejected out of the tube when through some misadventure, such as a sudden access of coughing, the patient breathes into the indiarubber mouth-pieces instead of drawing up air through it. The small ball-shaped ventilator in the mouthpiece of the indiarubber tube serves the same object. The mode of inhaling by means of the apparatus here shown is follows:—The lower part of the bottle, or bulb, is half filled with Oil of Turpentine, to which from five to ten drops of Oil of Peppermint are added. To introduce these oils, the cover of the bottle, together with the tubes, may be removed, or the oils may be poured through the glass air-tube. In case the stopper has been unfastened it should be closed again carefully. The indiarubber breathing tube is then introduced firmly into the nostril and a deep breath taken through the nose. The current of air drawn in through the air-tube becomes charged with the volatile parts of the oils, and, passing from the nose into the lungs, is able to exercise a healing effect even upon the remotest parts of the affected organ. In case it should not be convenient to emit the breath again through the second or fore nostril, this may be done through the mouth, or after detaching the indiarubber tube in the ordinary way. Each inhalation may last up to ten minutes, and the Inhaler may be applied three or four times a day, or more often. It is only necessary once or twice to renew the supply of Peppermint Oil by the from five to ten drops. The Oil of Turpentine need not be renewed for three or four days.

This Inhalation System should be applied in all cases of acute Cold, Catarrh of the Air Passages, Difficulty of Expectoration in Chronic Catarrh of the Respiratory Organs, and Pulmonary Tuberculosis, especially in its early stages. In general its regular use can be recommended to all persons who are in the habit of suffering from Catarrh in the Air Passages at the appearance of inclement weather. If applied with reasonable care the method cannot cause any ill effects whatever.

This Inhaler, which is patented in the United Kingdom by Dr. O. SIEMON, is manufactured and brought into commerce by the



**Von PONCET GLASS WORKS,**

**in BERLIN, S.O.,**

**KOEPNICKER STRASSE 54.**



WE beg the favour of your attention to the following Extracts from TWO REPORTS on our Petroleum Jellies, by

DR. S. RIDEAL, D.Sc., F.I.C.,

*Lecturer on Chemistry at St. George's Hospital Medical School.*

"I have made an examination of samples of your

"May 21st, 1892.

## YELLOW \* and WHITE PETROLEUM JELLY

of which the following is a short summary:—

	Melting point.	Specific Gravity of liquid at 60°C.	Specific Gravity of solid at 17°C.	Flashing point.	Relative viscosities.
Yellow ... ...	40°C	·933	·907	220°C	23°
White ... ...	36°C	·914	·867	151°C	20·5

"The physical properties of this make of Petroleum Jelly and that known as Vaseline are very similar; I believe your Petroleum Jellies to be genuine specimens of what is known as Paraffinum Molle, and to consist of a mixture of those Hydrocarbons to which the general name of Vaseline has been given by Allen.

"It is especially noteworthy that the above two samples were absolutely devoid of any traces of free acid.

"The Yellow and White Petroleum Jellies yielded no ash on ignition, were practically tasteless and free from smell, contained no saponifiable fat or resin, and showed from their homogeneity that they had been carefully manufactured.

"In my opinion, Petroleum Jellies, of the same quality as the samples examined, can be used with advantage as Paraffinum Molle, or as an equivalent substitute for the Petroleum Jelly known as Vaseline."

"October 14th, 1893.

"The two samples of Yellow Petroleum Jelly which my assistant took from your works on October 10th, are quite up to the standard of excellence of the samples I examined in May, 1892, and I am glad to be able to report that your make of Yellow Petroleum Jelly remains of such uniform character. The colour is a distinct improvement upon that of last year."

We shall be happy to submit samples and prices upon application, stating quantity, and packages required.

**SNOWDON SONS & CO.,**

*Manufacturers,*

MILLWALL, LONDON, E.

Telegrams—"SNOWDON, MILLWALL, LONDON."

Telephone No.—5127.

We supply direct, or through any Wholesale House, in which case please specify for our brand; see Trade Mark above.

SEE OTHER SIDE.

SNOWDON SONS & CO.,

MILLWALL,

LONDON,

E.

Jelly:



Petroleum

BEST AND PUREST

Conforms to all  
requirements of the  
British Pharmacopœia.

SEE OTHER SIDE.

# BURROUGH Cale Street Distillery CHELSEA

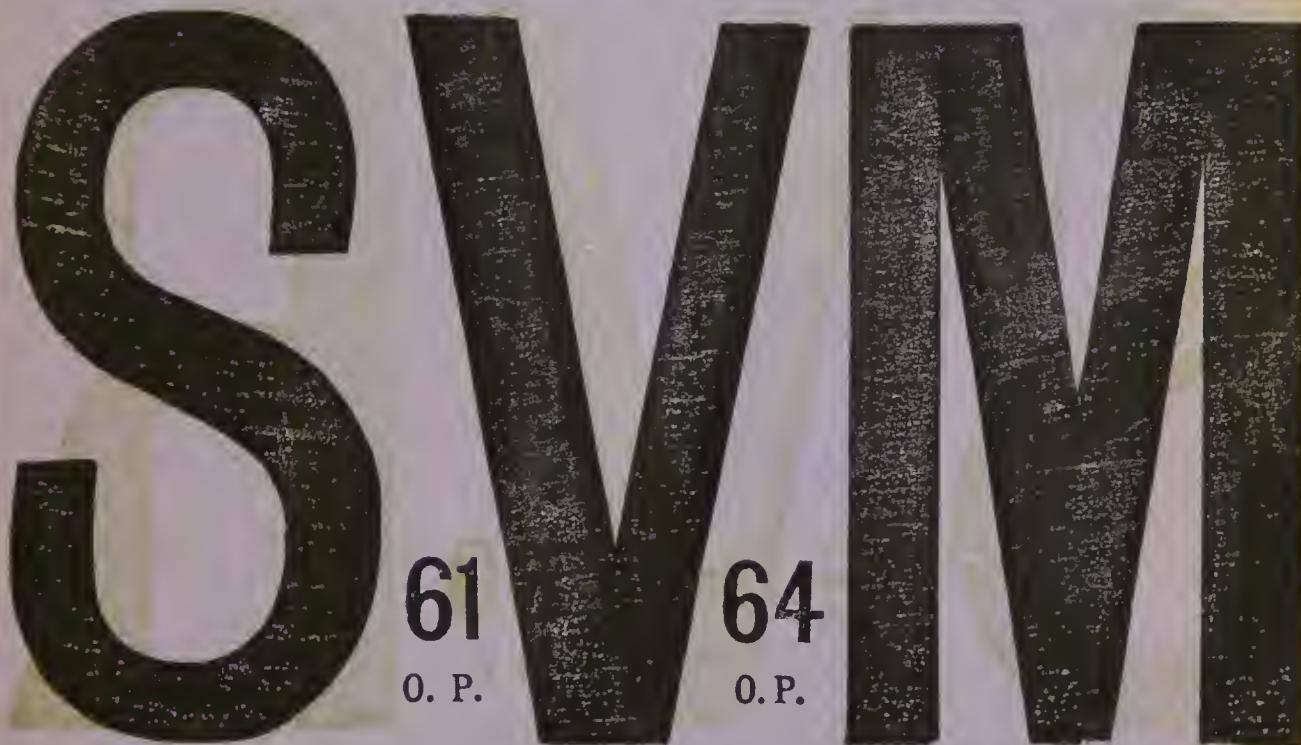


Fine S V R  
for TINCTURES  
(One Star Quality).  
Strongly  
Recommended.

OZONE and HERMIT  
IRISH and SCOTCH  
WHISKEYS

N.B.—Excise Request  
required with each  
order for  
Methylated Spirit.

**FINEST**



**AND FINISH**

AT SPECIALLY LOW QUOTATIONS ON APPLICATION

Finest Orange Wine, Malaga, Port & Sherry for Medicinal Uses

All other Wines, Spirits, Liqueurs and Cordials at Lowest Prices

FOR MEDICINAL AND DOMESTIC USES

JAS. BURROUGH  
DISTILLER  
CHELSEA, LONDON, S.W.

**S V R**  
FOR TINCTURES,  
(One Star Quality)



Eng.:  
Grain,  
Specially  
Pure.  
Free  
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Fusel Oil

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DISTILLER  
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OZONE  
WHISKEY  
(Irish)

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(Scotch)

Also One Star Quality, for TINCTURES. Highly Recom- mended

**SVR**  
56 O.P.      60 O.P.

Special Quotations for above and other Strengths on application.

Methylated Spirit and Finish 61 O.P. & 64 O.P.

PRICES AT PRESENT ARE THE LOWEST.

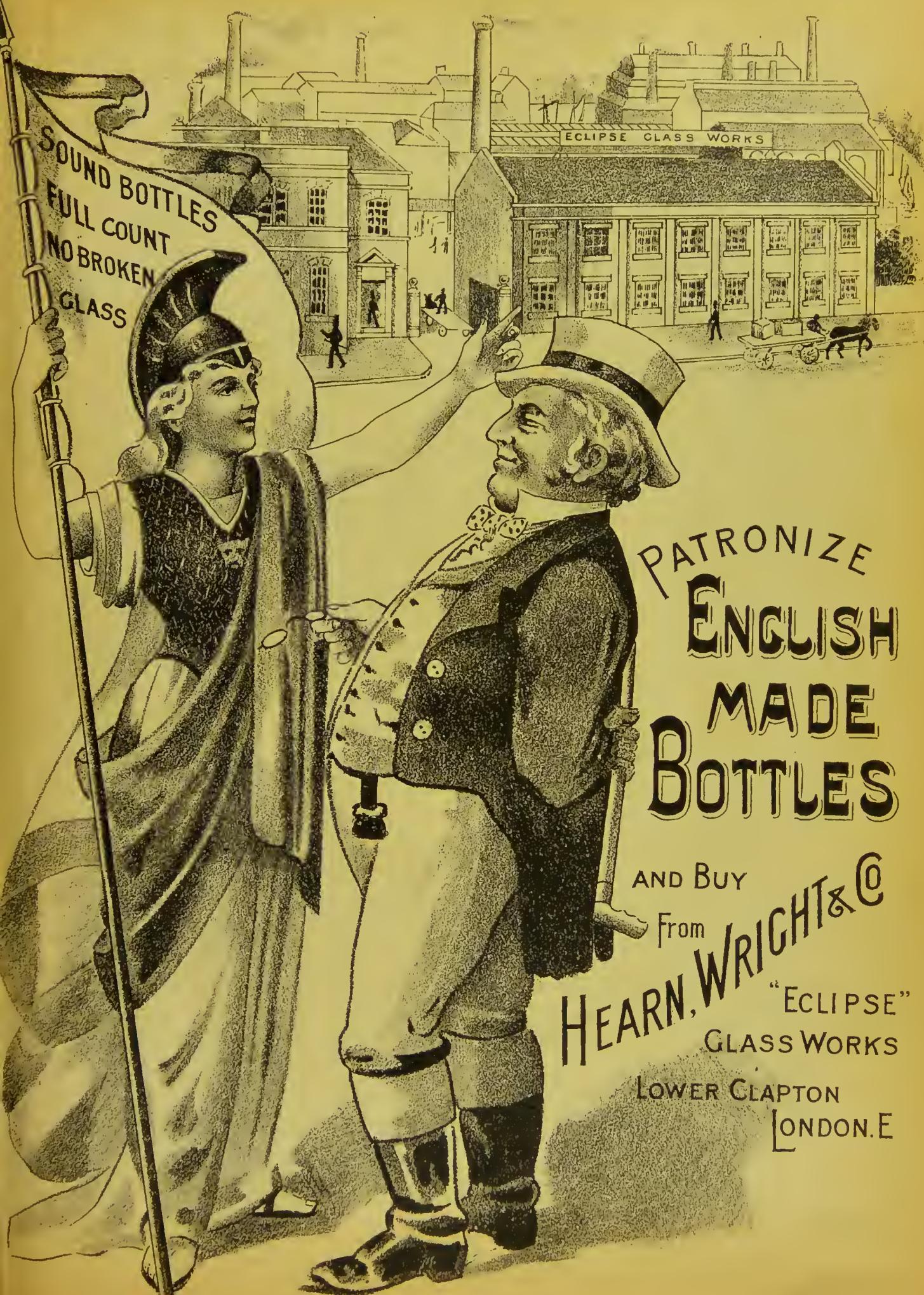
Orange Wine, Malaga, Sherry and Port for Medicinal Uses

BURROUGH      Cale Street Distillery      CHELSEA

(Ozone Whiskey Stores)

LONDON, S.W.

HIGHEST AWARD OF MERIT AND PRIZE MEDAL, ADELAIDE, 1887. AWARD OF MERIT, MELBOURNE, 1888-9.



HIGHEST AWARD OF MERIT AND PRIZE MEDAL, ADELAIDE, 1887. AWARD OF MERIT, MELBOURNE, 1888-9.

# STOPPERED BOTTLES



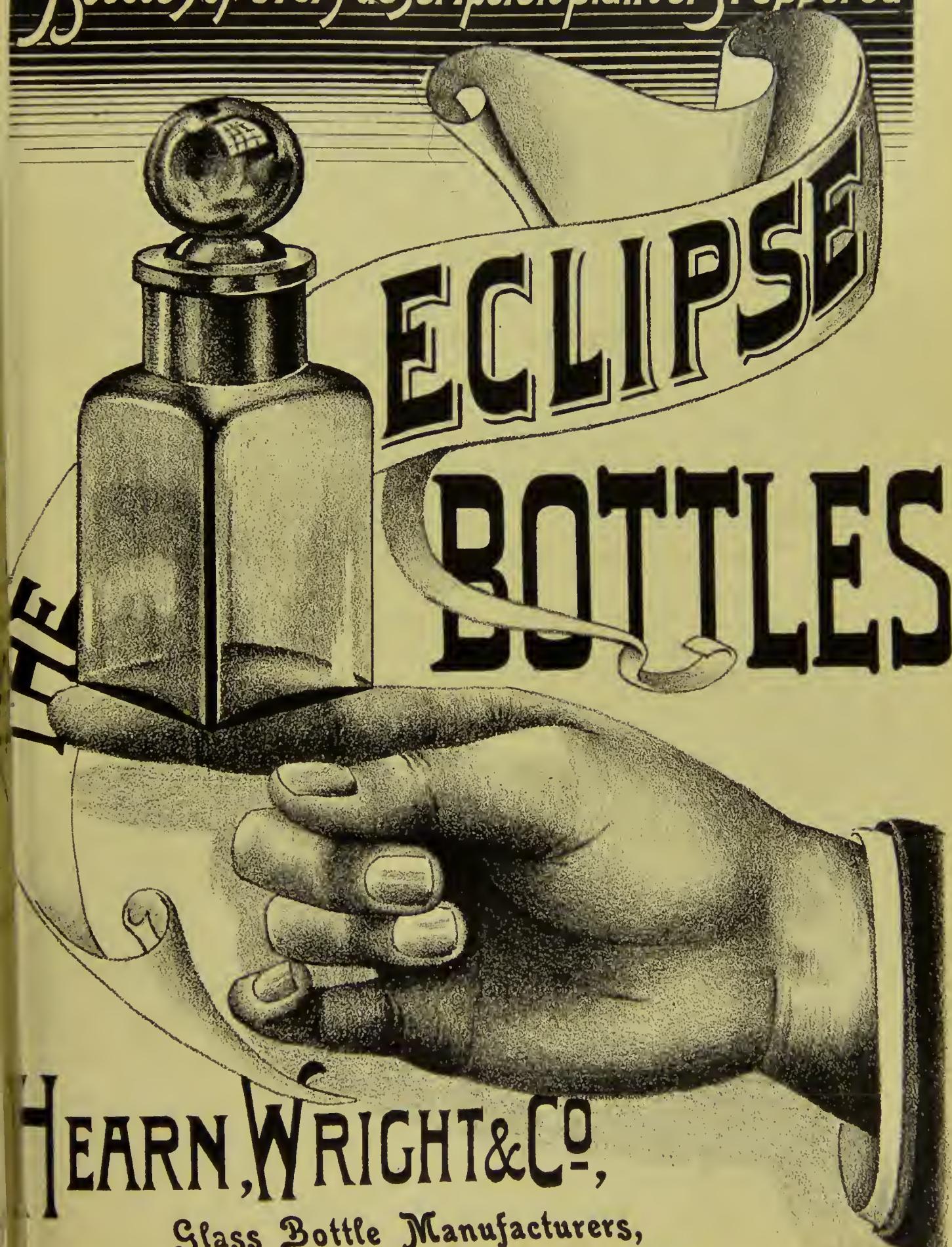
A  
Speciality  
with  
us



Supplement to "The Chemist & Druggist," July 28, 1894.

HIGHEST AWARD OF MERIT AND PRIZE MEDAL, ADELAIDE, 1887. AWARD OF MERIT, MELBOURNE, 1888-9.

*Bottles of every description plain or stoppered*



**Hearn, Wright & Co.,**

Glass Bottle Manufacturers,

ECLIPSE GLASS WORKS, LOWER CLAPTON, LONDON, E.

Supplement to "The Chemist & Druggist," July 28, 1894.

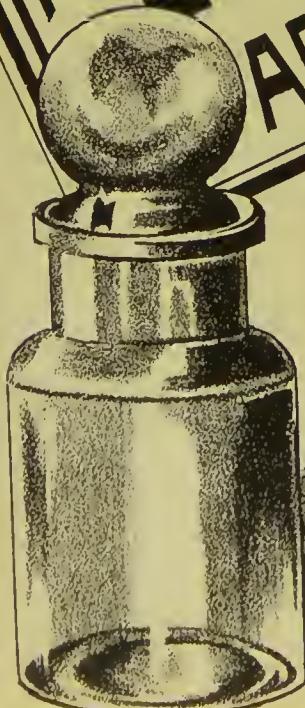
HIGHEST AWARD OF MERIT AND PRIZE MEDAL, ADELAIDE, 1887. AWARD OF MERIT, MELBOURNE, 1888-9.



WELL FITTING STOPPERS  
DON'T FALL OUT



THE ECLIPSE BOTTLES  
ARE THE BEST IN THE MARKET.



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ECLIPSE GLASS WORKS, LOWER CLAPTON, LONDON, E.

# OUR LEADING LINES.

Save Time, Labour, Money, and Endless Worry !!!

**COOPERS' Concentrated**

Liquor  
Ferri et Quiniæ  
et Strychniæ Phosph

EACH fluid drachm contains 4 grains of Phosphate of Iron ( $Fe_3 2 PO_4$ ), 3 grains of Phosphate of Quinia, and  $\frac{1}{2}$  grain of Strychnia.

ONE volume added to three volumes of Syrupus, B.P. forms Easton's Syrup (B.P.C.)

MANUFACTURED ONLY BY

**COOPER & CO.**

2, NEW NORTH ROAD, HOXTON  
LONDON. N.

**COOPERS' Concentrated**

Liquor  
Ferri Iodidi

EACH fluid drachm contains 34.4 grains of Iodide of Iron.

ONE volume added to seven volumes of Syrupus, B.P., forms Syr. Ferri Iodidi of full Pharmacopœia strength.

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**COOPERS' Concentrated**

Liquor  
Ferri Phosph Comp

EACH fluid drachm contains, in addition to the Alkaline Phosphates, 4 grains of Phosphate of Iron, and 8 grains of Phosphate of Calcium, dissolved in pure Phosphoric Acid.

ONE volume added to three volumes of Syrupus, B.P., forms "Chemical Food."

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**COOPERS' Concentrated**

Liquor  
Hypophosph Comp. C  
Quiniâ et Strychniâ

THIS Liquor is eight times the strength of the B.P.C. Compound Syrup of the Hypophosphites.

ONE volume to be added to seven volumes of Syrupus B.P.

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AND ALL OTHER CONCENTRATED LIQUORS FOR CHEMICAL SYRUPS.

In Ordering please specify COOPER'S

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Is usually wrong, but not always, for our Circular Argument is one which has stood the test of hard experience.

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If you want to Sell to your Customers the finest quality Drugs on the English Market, you must go to

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134 UPPER THAMES STREET, for your Capsules.

### TERMS—

COPAIBA, 36 in Box (best Maranham Balsam) ... ... ... ...	6/- per doz.
SANTAL, 24 in Box (finest English drawn Oil) ... ... ... ...	15/- ,,
BLAUD'S PILLS, CASCARA, and all others equally reasonable.	

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We absolutely guarantee the purity of our Drugs, and we will Print your Name and Address on all the Labels, free of charge, even if you only send us the smallest Sample Order—because you will have to repeat it.

# Red Cross Lint.



<b>PRICE</b>	1 lb. 1/9	<b>Order a</b>
28	„ 1/8	<b>Sample Pound!!</b>
56	„ 1/7	
112	„ 1/6	

**THE ONLY GENUINE RED CROSS LINT**

was introduced by Burgoyne, Burbidges, & Compy. in 1877.

This Lint is easily tearable both ways, and has given great satisfaction in Field and Hospital Practice at Home and Abroad.

None is genuine unless wrapped in BLUE paper, bearing our registered label with a cross in RED.

The increasing demand for this brand of our Lint is sufficient guarantee of its excellence and great utility. We cannot recommend it too highly.

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These Bandages are possessed of great strength, are elastic, light, and porous. They expand equally with the middle, and will not cut in the least degree, the pressure being even throughout. For all surgical purposes these Bandages are superior to the old kinds. Where firm support is required, they will be found highly adapted to receive Starch or Plaster of Paris, on account of the openness of the texture.

6 yards long, 2 inches wide 1/9 per doz. 18/- per gross.

6 yards long, 2½ inches wide 2/3 „ 24/- „

6 yards long, 3 inches wide 2/9 „ 30/- „

**BURGOYNE, BURBIDGES, & COMPY.,**  
**16, Coleman Street, London.**

# B. KÜHN, 36 St. Mary-at-Hill, LONDON

## SPECIALITIES

### ETHYL CHLORIDE and ANESTILE

(Dr. Bengué) FOR (Dr. Bengué)

### PAINLESS DENTAL & MINOR SURGICAL OPERATIONS.



**ETHYL CHLORIDE** (lodged in glass bulbs of 30 fluid grammes) is an anaesthetic which is at once rapid in action, convenient to use, always reliable, harmless, and inexpensive, for producing local anaesthesia in dental and minor surgical operations.

Immediate relief is also obtained in Neuralgic Headaches, Sciatica, Lumbago, and intense Dyspnoea, and Rheumatic Affections of all kinds, by spraying Ethyl Chloride on the parts affected.

For DENTAL WORK and for SURGICAL operations the one with STRAIGHT NECK, is recommended.



tained in Neuralgic Headaches, Sciatica, Lumbago, and intense Dyspnoea, and Rheumatic Affections of all kinds, by spraying Ethyl Chloride on the parts affected.

bulb with CURVED NECK, is recommended.

**ANESTILE** (lodged in nickel-plated copper cylinders of 120 fluid grammes) is an anaesthetic evaporating at a lower temperature than Ethyl Chloride ; local anaesthesia is therefore produced quicker, and over a larger surface, thus allowing of more extended surgical operations.



### EXALGINE (Brigonnnet).

The well-known analgesic which relieves pain in all forms of Neuralgia, Sciatica, Lumbago, Locomotor Ataxy, Cephalgia and Rachialgia in Influenza, &c. The analgesic properties of Exalgine have been fully established by prolonged and searching trials throughout Europe and America (see pamphlet with published reports). The single dose is fixed at  $\frac{1}{2}$  to 1 grain for children and 2 to 4 grains for adults.

It has recently been found that 8 grains Exalgine are dissolved by 1 oz. hot distilled water ; when cool this solution keeps clear, but if 8 grains are exceeded the crystals are precipitated in the cold solution. This fact cannot be too widely known, as it provides for a convenient mixture as well as prevents accidental overdosing. "Exalgine" is registered as a trade mark, and is sold in 1 oz. tins closed with the trade mark and the name of the manufacturers, Messrs. Brigonnnet & Naville, La Plaine, St. Denis, Paris.

### SOMNAL (Radlauer).

(Æthylized Chloral Urethane.)

Somnal produces healthy sleep, lasting 6 to 8 hours, in half an-hour after the dose has been taken. It combines the excellent properties of Chloral and Urethane without producing their disagreeable side effects.

### ANTINERVINE (Radlauer).

(Salicyl Bromanilid.)

Antinervine has no injurious side effects, and can be used for some time without injury to the organism. It is an excellent remedy in feverish Catarrhal and Rheumatic Pain, Diphtheria, and other typical fevers.

### SALICYLIC ACID, SALICYLATE OF SODA, SALOL (Knoll & Co.).

The products of Messrs. Knoll & Co., Ludwigshafen, are well known for their purity, uniformity, and superiority of manufacture generally. The Salicylic Acid was found free from cresotic, and melting at 156.8° C. (314.2° Fahrenheit). The Salicylate of Soda was found to have the same degree of purity.

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**B. KÜHN, 36 ST. MARY-AT-HILL, LONDON.**

# PAPAIN (Dr. FINKLER & CO.).

## Normal Dose:—TWO GRAINS.



FACSIMILE OF  
QUARTER OUNCE  
BOTTLE (Half Size).

An ideal and purely vegetable Digestive Ferment, obtained by a special process from the juice of the Carica Papaya, by which **UNIFORMITY** and **THERAPEUTIC EFFICACY** is guaranteed. It digests in **ACID**, **ALKALINE**, and **NEUTRAL** Solutions, and also exercises a **TONIC** and **ANTISEPTIC** action. Its effect is **IMMEDIATE** and **CURATIVE** in most forms of **DYSPEPSIA**; it has also been successfully used for dissolving the false membrane and staying further infection in **DIPHTHERIA**.

### Extracts from Analytical Reports, Opinions of the Medical Press, and Testimonials of the Medical Profession.

Mr. E. G. CLAYTON, F.I.C., reports, July, 1891:—"My very searching examination and experiments prove beyond doubt that Pepton was formed in the process of digestion produced by Papaïn (Dr. Finkler & Co.) on lean beef in acid, alkaline, and neutral media."

Mr. H. HELBLING, F.C.S., and Dr. PASSMORE, F.I.C., report, May 15, 1893:—"The experiments prove that Papaïn (Dr. Finkler & Co.) maintains its digestive action in acid, alkaline, and neutral media for a long time, even in the proportion of 1 part to 1,000 parts of meat, and in a comparatively short time renders the meat fibre soluble and assimilable; the

(Copies of the above Reports can be obtained on application.)

*The Lancet* says on Papaïn (Dr. Finkler & Co.):—"This preparation affords very satisfactory results; it is evidently a trustworthy product, and one which may be relied upon for uniformity of digestive power."

*Medical Press and Circular*:—"The action of Papaïn (Dr. Finkler & Co.) on food is not limited to any particular organ of the alimentary canal, but continues as long as there is food to be acted upon, whether in the stomach or intestines."

*Provincial Medical Journal*:—"We have on several occasions expressed our opinion as to the value of Papaïn (Dr. Finkler & Co.), and more increased experience

"Of the value of your Papaïn in **GASTRIC ULCER**, **LARYNGEAL ULCERATION**, and in **ATONIC DYSPEPSIA**, I have had definite experience. I shall prefer its use in **DYSPEPSIA** to any preparation of Pepsin."—M.R.C.S., April 12, 1894.

"I am using your Papaïn constantly in cases of **ATONIC DYSPEPSIA**, always with good results. I find it much

digested products were examined and found to consist of 61·5 per cent. true Pepton and 38·5 per cent. of allied albumose. Papaïn (Dr. Finkler & Co.) dissolves hard-boiled white of egg at the end of six hours, the digested products of all these reactions being easy assimilable Peptons in the true sense."

Dr. S. RIDEAL, F.I.C., F.C.S., in a paper read before the Pharmaceutical Society at Edinburgh, March 28, 1894, proves that Papaïn (Dr. Finkler & Co.), unlike Pepsin, digests best in a concentrated solution, such as food exists in the human stomach and intestines, or, in other words, when a large amount of undigested proteid is present.

(Copies of the above Reports can be obtained on application.)

has confirmed our opinion as to its superiority over many of the Pepsine preparations."

*Edinburgh Journal* says of Papaïn (Dr. Finkler & Co.) preparations:—"These are excellent preparations of a most valuable drug, and will be found useful in many forms of dyspepsia."

*Indian Medical Journal*:—"Papaïn (Dr. Finkler & Co.) in the form of tablets, lozenges, pills, and its modification in other forms, offers to the physician a most elegant, simple, and efficient preparation of Papaya, in which the active principles are represented in the best possible pharmaceutical type of concentration."

superior in its action and more agreeable to take than Pepsin."—M.D., M.A., &c., April 25, 1894.

"In two special cases of severe **CHRONIC GASTRIC IRRITATION**, when the food was rejected and pain was acute, I have had most satisfactory results from your Papaïn. It is valuable in cases of **CHRONIC DYSPEPSIA**. I should be sorry to be without it."—L.R.C.P., M.R.C.S., May 7, 1894.

All packages of Papaïn (Dr. Finkler & Co.) are closed with the Trade Mark and Signature, and each contains a short and convenient test. Accept no other.

PAPAIN (Dr. Finkler & Co.) is sold in Powder, Pills, Lozenges, Tablets, and the following Liquors Co.: Acid Glycerine, Iridin, Bismuth, Cascara Sagrada, by all Wholesale and Retail Chemists; and where not obtainable apply direct to



Dr. Finkler & Co.

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SOLE UNIVERSAL DEPOT.

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Purest and Whitest Quality.

CHEAPEST SELLERS IN THE MARKET,

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## CHEMICALS, DRUGS, GUMS & OILS.

Manufacturers of BUCKINGHAM'S PATENT BOILER COMPOSITION, for Preventing and Destroying Incrustation in Steam Boilers.

PREPARED FRENCH, FINGER, AND COLOURED CHALKS OF EVERY DESCRIPTION.

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Manufacturers of Granular Effervescent Preparations. We shall be glad to give specially favourable quotations, and to send samples of our superior Nos. 1, 2, and 3 qualities of CITRATE OF MAGNESIA.

Importers of Cod-liver, Castor, and Olive Oils; Extra Super Essence of Lemon and Bergamot, Otto de Rose, and all

Essential Oils; Valentia Saffron; Vanillas; Fruit Essences; Carmine, Aniline Dyes; Bees' Wax, &c., &c.

MANUFACTURERS of Very Superior Flexible Gelatine Capsules of Balsam Copaiaba, Cascara Sagrada, Castor Oil, Cod-liver Oil, Santal Oil, and Blaud's Pill Capsules, equal to 1, 2, and 3 pills. Samples and Lowest Quotations per 1,000, or in Boxes for Retail, will be sent on application from either the Wholesale or Retail Trade.



## MACKEY, MACKEY & CO.

WHOLESALE DRUGGISTS, MANUFACTURING CHEMISTS.

MEDALS—Cape Town, 1877; Brighton, 1881; Cork, 1883; Dublin, 1884; International Inventions Exhibition, 1885.  
GOLD MEDAL—International Health Exhibition, 1884.

Makers of SOLUBLE GELATINE-, PEARL-, and SUGAR-COATED PILLS, TABLETÆ, HYPODERMIC INJECTIONS, PESSARIES, SUPPOSITORIES, BOUGIES, PASTILLS, FLUID EXTRACTS, OLEATES OF THE METALS.

SPECIALTIES—Mistura Bismuthi Co. (Tonic Digestive); Mistura Cerri Co. (and all Preparations of Cerium); Glycerol Pepsina et Euonymin (Digestive Cholagogue); Glycerol Podophylli (Cathartic); Mistura Cascarae Sagradæ Co. (Tonic Laxative); OL. EUCALYPTI, P.B.

DRUGS AND CHEMICALS OF BEST QUALITY.

NEW REMEDIES & SPECIAL PHARMACEUTICAL PREPARATIONS, VETERINARY DRUGS & CHEMICALS.

Price Lists and Samples on Application.

1 and 2 BOUVIERIE ST., FLEET ST., LONDON, E.C.

ASTON CLINTON,  
July 3, 1894.  
To CHEMISTS AND DRUGGISTS.

*Re "VIROL."*

We should feel extremely obliged if Chemists would kindly tell their customers who are taking "VIROL" that the largest size (3/6), holding 1½ lb., is by far the cheapest form of buying it; in fact, the next size smaller (2/6) only holds half this quantity. The small size (retailing at 9d.) is useful for those who might wish to try it before ordering a larger quantity.

**SOMETHING OF THE ORIGIN AND THE ACTUAL INTRINSIC VALUE OF "VIROL."**

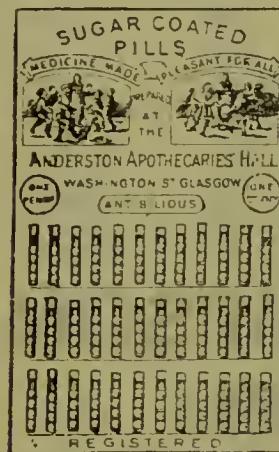
We have no hesitation in saying that "VIROL" is, without doubt, the cheapest form of bone-marrow; and, in fact, the weight of the contents of a full-sized jar (retail price 3/6) is equal in weight to the entire marrow obtained from the entire ox—of which only eight bones can be utilised for this purpose. Medical men may ask how it is we can supply marrow fat on such an economical basis. Our answer is that in the production of Caffyn's Liquor Carnis marrow bones are practically waste material with us—and, in fact, until "VIROL" was invented we sold them to the rag-and-bone dealers at a few pence a hundredweight, as, our works being in the country, we were too far from the market of consumption to effect sales for culinary purposes; so that the production of "VIROL" would directly be a loss to us were it not for these accidental circumstances; but for this fact "VIROL" would never have seen the light of day.

"VIROL" is sold in Stone Jars, retail, at 9d., 2 6, and 3 6 (1½ lb.).

**THE LIQUOR CARNIS COMPANY (LIMITED), LONDON, E.C.;**

WILLIAM SHEPPERSON,  
Managing Director.

AND ASTON CLINTON, BUCKS  
(Head Office).

**SUGAR-COATED PILLS,** COMPOSED OF THE  
PUREST DRUGS.

SOLUBLE, RELIABLE IN ACTION, PERMANENT. Special Net Price List. Cash with Order.

Packed in Gross Screw-capped Bottles	Per grs.	10	50	100	Packed in Gross Screw-capped Bottles	Per grs.	10	50	100	Packed in Gross Screw-capped Bottles	Per grs.	10	50	100
1d. per gross extra.					1d. per gross extra.					1d. per gross extra.				
Antibilious .....	1/-	11d.	10d.	9d.	Hamilton .....	1/1	1/-	11d.	10d.	Podophyllin .....	1/-	11d.	10d.	9d.
Assafetida .....	8d.	7d.	6d.	6d.	Indigestion .....	1/-	1/-	10d.	9d.	Quinine .....	1 2	1/-	11d.	10d.
Bland .....	6d.	5d.	4d.	4d.	Laxative .....	10d.	9d.	8d.	7d.	Rhubarb .....	2d.	8d.	7d.	6d.
Castor Oil .....	9d.	8d.	7d.	6d.	Little Liver .....	5d.	4d.	4d.	3d.	Squill .....	8d.	7d.	6d.	5d.
Coloeynth .....	1/-	11d.	10d.	9d.	Liver .....	1/-	1/-	11d.	10d.	Steel and Alces ..	8d.	7d.	6d.	5d.
Dandelion .....	1/-	11d.	10d.	9d.	Mereurial .....	8d.	7d.	6d.	5d.	Tonic .....	1/-	11d.	10d.	9d.
Female, Al. et Ir.	8d.	7d.	6d.	5d.	Neuralgia .....	1/-	11d.	10d.	9d.	Vegetable, &c. ....	9d.	8d.	7d.	6d.
Gregory .....	1/-	11d.	10d.	9d.	Opium .....	1/-	11d.	10d.	9d.					

The Pills are also put up in glass tubes containing 4, and the Little Liver 8 in each tube, and sell at One Penny per tube. They are packed on cards of 3 dozen, and in gross boxes with glass lid at 7/- per gross tubes assorted: also in screw-capped bottles to sell at 6d., 3/6 per dozen, 36/- per gross bottles; 6 gross assorted 1d. tubes in bandsome mahogany case, 42/-.

Private recipes compounded, rolled, and coated, in 8 to 10 days, made all sizes from ½ to 4 grains. The formula for any Pill will be given when required. Wholesale Agents—HATRICK & CO. (LIM.), 31 Snow Hill, London, E.C.

**ANDERSTON APOTHECARIES' HALL, WASHINGTON STREET, GLASGOW.**  
Telegraphic Address—"Litupitan Glasgow."

**Trade Notice.]****[Trade Notice.**

# ATKINSON & BARKER'S ROYAL INFANTS' PRESERVATIVES.

Established by 100 years' experience as a safe and effective Medicine.

WHOLESALE AND EXPORT ORDERS SUPPLIED FROM THE MANUFACTORY—

11 RUSSELL STREET, DOWNING STREET, MANCHESTER.

SHOW CARDS AND BILLS ON APPLICATION.

## CHEMICAL DISINFECTANT.

10 and 15% CARBOLIC  
Antiseptic and Deodorising  
Powder.  
Bags and casks free.

ACENTS WANTED  
to supply Corporations and large users.

8d. and 1/- Decorated  
4/- and 8/- per doz. Boxes.

Special terms for 5 gross and upwards, with agent's name and address thereon.

## CHESHIRE BIRD LIME.

In 1d., 2d., and 3d. tins.  
Also in 1, 2, 3, and 7 lb.  
Tins and Casks, for large consumers and the trade.

The new and attractively labelled tin boxes are very convenient and handy for use and retailing.

SAVE TIME AND TROUBLE.

## "COAGULINE"

(TRADE MARK).

Transparent Cement for Broken Articles,

## LAVA.

A fusible imperishable Cement for Stone and Iron Work Bedding, &c.

## CUE CEMENT.

## CUE-TIP FIXERS

(Brass or Wood).

TIPS, WAFERS, CHALKS.

## SAPO LINI, OR

## LINSEED SOAP

(A Saponified Linseed Jelly).

In Brown Windsor or "Rosotto" Tablets.

Prices, Circulars with Name and Address, Specimens, Shoe Cards, Glass Tablets &c., &c., on application.

KAY BROTHERS LIMITED, ST. PETERSGATE MILLS, STOCKPORT.

Founded A.D. 1788.  
Incorporated 1887.

# MAW'S GELATINE CAPSULES.

			Containing	Per doz.		Containing	Per doz.
Casca Sagrada, in round boxes	...	...	30	7/-	In oval screw-cap bottles	36	8 9
Casca Sagrada, stronger, in round boxes	...	...	30	8 6	Ditto	ditto	11/-
Castor Oil, in square boxes	...	...	36	5/-	Ditto	ditto	6/3
Cod Liver Oil, in square boxes	...	...	36	6/-	Ditto	ditto	7/3
Copalba, with or without Name, best, in oval boxes	...	...	36	5 3	Ditto	ditto	6 8
Copalba, Flexible, in oval boxes	...	...	36	5 9	Ditto	ditto	7/-
Copaiba, Flexible, larger, in oval boxes	...	...	36	8/-	Ditto	ditto	9 8
Copalba and Cubeb, in square boxes	...	...	36	8/-	Ditto	ditto	8 9
Copaiba, Cubeb, and Buchu, in oval boxes	...	...	36	9/-	Ditto	ditto	10/-
Copalba, Cubeb, and Sandal-wood Oil, Flexible, in oval boxes	...	...	36	15 6	Ditto	ditto	16 6
Oil of Male Fern (18 drops), in square boxes	...	...	36	12/-	Ditto	ditto	12 8
Sandal-wood Oil, Flexible, English, in round boxes	...	...	30	17/-	Ditto	ditto	21/-
Tar, Norwegian, in square boxes	...	...	36	5 6	Ditto	ditto	6 3
Terebene, pure (10 minims), in round boxes	...	...	30	7/-	Ditto	ditto	8 3
Turpentine, in square boxes	...	...	36	5 -	Ditto	ditto	6/0

**S. MAW, SON & THOMPSON,**  
 7 to 12 Aldersgate Street, LONDON, ENGLAND.

**SOMNAL (RADLAUER) PATENT.**

(Ethylated Chloral Urethane.)

superior to Chloral and Sulphonal in the rapidity with which it takes effect, and in the natural character of the sleep.

In Liquid Form only, is the Best and most Active Hypnotic. It produces healthy sleep, lasting 6 to 8 hours, in half-an-hour after the dose has been taken. Numerous experiments in Hospital and Private Practice have proved Somnal (Radlauer) to be

**ANTINERVINE (RADLAUER) PATENT.**

(Salicyl-Bromantid.)

Tuberculosis, Rheumatism of the Joints, Gout, Neuralgia. Antinervine has no injurious side effects, and can be used for some time without injury to the organism.

**ANTISEPTIC PERLES (RADLAUER)** contain Thymol, Menthol, Eucalyptol, Vanillin, and Essential Oils, in globular form mouth and larynx, and to the tonsils; as a prophylactic for Diphtheria they are of great value amongst Children and Adults, superseding Mouth Washes and Gargles.

SOLE MANUFACTURER—

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FOR PRICES AND PAMPHLETS APPLY TO

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Sole Wholesale Depôt for the United Kingdom.

**DUNCAN, FLOCKHART & CO.,**  
 WHOLESALE AND EXPORT DRUGGISTS, EDINBURGH.

# CHLOROFORM

(DUNCAN'S),

Prepared from Pure and Methylated Spirit, also Chloroform (blue label).

Put up in all sizes of bottles. A strap with Name and Trade Mark of the Firm is placed over the stopper of each bottle. For Export, in bottles corked and fitted (stoppers attached), and in hermetically sealed flasks when required.

N.B.—We guarantee all our Chloroforms to be PURE CHLOROFORM, answering all the tests of the British Pharmacopœia.

# CHLORIC ETHER

(DUNCAN'S).

This is a special preparation, quite different from Spir. Chloroform P.B., perfectly miscible with water, and always of the same strength.

# "THE LEADING HOUSE" FOR "Private Brands" of milled and superfatted Soaps, toilet as well as medicinal.

As we make it our business,

## PRIVATE

If required, to wrap the Tablets tastefully and put them in boxes bearing customers' lithographed,  
CHEM ST AND DRUGG ST:

H. Bronnley & Co. have struck out a line which is useful to the trade, and ought, consequently, to be profitable to themselves. They are manufacturing private brands of toilet soap. The samples they showed us were variously entitled, and bore the names of well-known and highly-reputable pharmaceutical firms. Their soaps are superfatted, and the samples we were shown were, in respect of emollience, fragrance, and moulding, of a very high quality.

## MILLED SOAPS.

public, and can supply our friends with well-got-up lines  
and best-class goods at Wholesale prices.

## BRANDS

gold, or silver blocked labels, houses abroad have special

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facility to order from us. We do not advertise to the  
BRITISH AND COLONIAL DRUGGIST:

. . . Messrs. H. Bronnley & Co., who make it their speciality to manufacture private brands of dehydrated and superfatted toilet and tooth soaps. We understand that this firm is patronised by the best buyers, and we believe that profitable business may be done with their attractive and genuine goods.

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LARGEST TOOTH SOAP  
COMPRESSORS IN THE WORLD.

# HUBBUCK'S PURE OXIDE OF ZINC

THROUGH THE CHIEF WHOLESALE HOUSES.

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MANUFACTURING PHARMACEUTICAL CHEMISTS, EXPORT DRUG MERCHANTS,  
IMPORTERS OF BRAZILIAN DRUGS, AMERICAN AND CONTINENTAL SPECIALTIES.

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Largely replacing the Mitcham Oil, 21/ lb.  
Hydrobromic Syrup of Hypophosphites.



**OL. LIMONIS RECT.**

Fine quality, keeps well. 6/6 lb.  
LAC BISMUTHI.

Lac Bismuthi et Cerii, &c

# TO THE MEDICAL PROFESSION AND CHEMISTS.

Owing to misapprehensions as to the amount of morphine used in the preparation of

## Mrs. WINSLOW'S SOOTHING SYRUP,

we wish to state that the amount is one-eighth (1/8) of one grain to a fluid ounce. As there are eight teaspoonfuls to an ounce, the amount of morphine in a teaspoonful, our maximum dose, is one sixty-fourth (1/64) of a grain.

It will be seen that this is very much less than the quantity used in similar preparations authorised by the Pharmacopœia.

The Anglo-American Drug Company (Lim.),

W. RENAUD, Managing Director.

33 Farringdon Road, London.

## MANUFACTURED FROM INDIAN OPIUM !

Of Highest Quality and of Absolute Chemical Purity.

## Morphia and Codeia.

MORPHINÆ HYDROCHLORAS, PUR. B.P.,

in Lots of 10 oz. 5/6 per oz.

Ditto ditto in Lots of 100 oz. 5/3 "

CODEINA CRYSTAL, PUR. B.P.

in Lots of 5 oz. 13/9 per oz.

Ditto ditto in Lots of 50 oz. 13/6 "

Packed in Tins, and delivered free of all charges to any address in Great Britain or Ireland in exchange for Cash, by money or postal orders, or drafts on Bombay through the Hong Kong and Shanghai Banking Corporation, London, or other Indian banks; or in exchange for bill of lading against shipping documents. Larger quantities at lower prices !!

BERTIE SMITH & CO., Manufacturing Chemists, Wholesale and Export Drug Merchants, and BOMBAY.

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SULPHATE OF QUININE, and all other CINCHONA PREPARATIONS.

ALSO OF

ACETANILID, CAFFEINE, COCAINE, CHLORALHYDRAT, CUMARIN, GALIC ACID,

GLYCERINE, HELIOTROPIN,

SALICYLIC ACID & SALICYLATES, STRYCHNINE, TERPIN HYDRAT, &c.

STOCKS KEPT IN LONDON, GLASGOW, AND DUBLIN.

AGENTS.—LONDON: Messrs. DOMEIER & CO., 13 St. Mary-at-Hill, E.C. GLASGOW: Messrs. F. R. MUELLER & CO., 47 Waterloo Street. DUBLIN: Mr. JOS. LECKY, 26 Eustace Street.

Sole Agents for Australia—Messrs. RABONE, FEZ & CO., SYDNEY, N.S.W.

To Chemists and Druggists,  
Wholesale and Retail.

It having been brought to our knowledge that certain Chemists in the United Kingdom are selling as Bromidia a substance not manufactured by Messrs. Battle & Co., We Hereby Give Notice that legal proceedings will be instituted to restrain any persons from selling under the title or name of Bromidia, or any name which will be liable to be mistaken for the same, any substance not of the manufacture of Messrs. Battle & Co. We are the Sole Wholesale English Agents for this preparation.

Yours faithfully,

ROBERTS & CO.,

76 New Bond St.,

London, W.

16th June, 1894.

## FOREIGN SPECIALITIES & MEDICINES. REVISED PRICE LIST.

# ROBERTS & CO.

## FOREIGN AND ENGLISH CHEMISTS,

WHOLESALE, IMPORT, AND EXPORT AGENTS FOR

### FOREIGN MEDICINES AND PATENTS, 76 NEW BOND STREET, LONDON.

Messrs. Roberts & Co. beg to inform the Trade that they are Agents for all the principal French and Foreign Specialities and Medicines, a large supply of which they have always on hand, and can supply on very favourable terms. They are in daily communication with their Paris House, and can offer exceptional facilities for procuring New Medicines, &c., &c., with very little delay. The following is a list of a few that they name *au hazard*, and that have a large sale:—

Retail	Per doz.	Retail	Per doz.	Retail	Per doz.	Retail	Per doz.
4/6.. Alcool de Menthe Ricqles	4/6	4/6.. Capsules Matico	35/-	2/3.. Guyot's Liq. Goudron	18/-	2/9.. Rabuteau's Dragées Ferrug.	24/6
2/9.. Ditto ditto	21/-	4/6.. Mathey Caylus	35/-	9/- Laville's Gout Tincture	81/-	7/- " Elixir Ferrug.	65/-
2/9.. Aubergier's Syrup	27/-	4/6.. Chassaing's Wine	39/-	9/- " Pills	78/-	2/9.. " Syrup Ferrug.	24/6
1/9.. Pâté	15/-	2/9.. " Pills	24/-	1/1½ Papier Fayard	69/-	4/- Racahont des Arabes	31/-
6/6.. Bay Rnm	57/-	4/6.. Cin's Dragées Bromide Cam	45/-	2/3.. Ditto	136/-	4/6.. Reynal's Bougies	38/-
3/6.. Ditto	31/-	5/- Eau de Botot (Genuine)	40/-	2/3.. Papier Fruneau	14/6	2/9.. Ricord's Injection	24/-
2/- Belloc's Charcoal	15/-	3/- Ditto	24/-	4/- Ditto	24/6	4/6.. " Capsules	36/-
1/9.. Lozenges	15/-	2/- Espic's Cigarettes	13/6	1/9.. Pâté d'Anbergier	15/-	9/- " Syrup	90/-; 4/6, 42/-
4/8.. Blanchard's Pills	32/-	4/6.. Elixir dc Coca (Mariani)	48/-	1/9.. " de Berthé	15/6	1/6.. Star Paper	11/-
2/8.. Ditto	18/-	2/9.. Fion's Syrup	23/-	2/9.. " de Coca Mariani	25/-	1/9.. Vallet's Pills	14/6
4/8.. Brou's Injection	27/-	.. Gayetty's Paper	1/-	1/9.. " de Georgé	14/6	2/9.. Ditto	23/-
4/8.. Bogaudeau's Winc	36/-	2/3.. Granules Arsen. Acid	13/6	1/1½ " Ditto	9/-	4/6.. Veloutine (Whte, Pnk, Oim.)	28/-
3/8.. Bully's Vinegar	30/-	2/9.. " Iron	14/5	1/6.. " do Nafé	13/6	3/6.. Ditto ditto	22/-
2/- Ditto	14/6	2/9.. " Soda	15/4	1/9.. " Regnault	14/6	2/9.. Vlchet's Trochisques	22/-
4/8.. Candé's (Lait Antéphilique)	36/-	2/9.. Grimault's Syrup Lime	24/-	7/- Pierlot's Valerian	69/-	4/6.. Vlu Mariaui	36/-
4/8.. Capsules Bromido Camph.	45/-						

SOLE EUROPEAN AGENTS FOR BATTLE & CO.'S BROMIDIA AND IODIA, AND BLOUNT'S OIL OF TAR AND TEREMORRHU.

MM. Roberts & Cie. ont l'honneur d'informer MM. les Pharmacien Spécialistes de France et de l'Etranger qu'ils se mettent à leur disposition pour des dépôts qu'ils voudraient établir à Londres. On peut avoir tous renseignements en s'adressant à leur maison de Londres ou à Paris.

Agents for MARIANI'S PREPARATIONS OF COCA and LE GRAND'S ORIZA PERFUMERY.

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## WHOLESALE DRUGGISTS & IMPORTERS, Manufacturing Chemists, BRISBANE, QUEENSLAND.

Importers of Drugs, Chemicals and Druggists' Sundries, Patent Medicines and Perfumery, Surgical and Photographic Sundries, Confectioners' and Dyers' Goods, Dental Sundries, Soda-water Machinery, Bottling Racks, Egg-shape and Lamont's Soda-water Bottles, and all Cordial Makers' Requirements.

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CHEMISTS, DRUGGISTS,

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## GENERAL MERCHANTS, LUCKNOW, OUDH, INDIA,

Possess exceptional facilities for the introduction of NEW SPECIALTIES, Patent Medicines, Druggists' Sundries Perfumery, &c.

## 'VACCINE-CREAM'

In Half Tubes, Large Tubes, Extra Large Tubes, Tablets, or Phials.

A preparation from Pure Calf Lymph of guaranteed stability and reliable quality.

### AGENTS WANTED EVERYWHERE.

MOST LIBERAL TERMS.

F. J. REBMAN, 11 ADAM STREET, STRAND, LONDON.

Registered Telegraphic Address—"SQUAMA, LONDON."



Trade Mark  
Regd. Inter'd.

THE ASSOCIATION FOR THE SUPPLY OF PURE VACCINE LYMPH,  
12 PALL MALL EAST, LONDON, S.W.,  
SOLE AGENTS FOR

## DR. WARLOMONT'S CALF VACCINE.

Tubes, 2s. each. Half Tubes, 1s. each. Pomade in Vials, 5s.

HUMAN VACCINE (from healthy children only, microscopically examined and source quoted).—Tubes two-thirds full, 1s. 8d. each. Tubes one-third full, 1s. each.

Tubes two-thirds full (same as those mentioned above, but without source), in quantities for export, £5 per 100 Tubes. Pin Points (uncharged), 1s. per dozen. Vaccine Ejectors, 1s. 3d. each, including postage.

Office hours, 10 to 4; Saturdays, 10 to 2. P.O.O.'s (including postage, and crossed "London and Westminster Bank") with orders, payable to

EDWARD DARKE, Secretary.

## IN PERFORATED TOILET ROLLS—WE LEAD.

"SANICO," "QUEEN," "BRITISH No. 3,"  
"BRONCO," & "BEL-CAP" BRANDS.

The "BEL-CAP" contains 2,000 sheets guaranteed, of the finest quality thin paper, and should be stocked by every Druggist.

Sample dozen, 8/6.

Retails at One Shilling.

CHEMISTS SHOULD ASK THEIR WHOLESALE HOUSE, OR SEND TO US DIRECT, FOR OUR LIST.

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# W. H. SCHIEFFELIN & CO.'S

(NEW YORK, U.S.A. ESTABLISHED 1794)

# SOLUBLE PILLS AND GRANULES

IN TASTELESS TRANSPARENT COATING.

NOT AFFECTED BY CLIMATE.

Unequalled for Purity in Composition, Solubility in Coating, Uniformity in Size, Perfection in Form and Finish.

**NUMEROUS GOLD & SILVER MEDALS AWARDED.**

1. The best materials are used in their manufacture.
2. The Pills are Coated while soft.
3. The Coating is perfectly soluble, and dissolves quickly ; there is no sub-coating of any kind.
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6. The mass is worked to the highest possible degree of uniform intermixture, and subdivided with scrupulous exactness.
7. Vegetable or organic matters are not charred, nor are volatile principles lost, by the use of heat at any time throughout the process of manufacture.
8. The excipients are specially adapted to the permanent solubility of the mass and its efficient therapeutic action.

*Price List of Pills and Book of about 400 useful Formulae (including those of the British Pharmacopœia) sent free on application.*

**POTTER & SACKER** (*Sole Agents for Great Britain and Ireland*), 80 Fenchurch Street, LONDON, E.C.

# HOMOCEA

OINTMENT.

CURRENT { 1/1½ size, 9/- per dozen.  
PRICES { 2/9 , 25/6 ,

6% Cash discount on £10 orders accompanied by cheque.  
Less quantities strictly NET. 1/- and 1/6 per doz. extra is charged on less quantities than 3 doz. of either size.

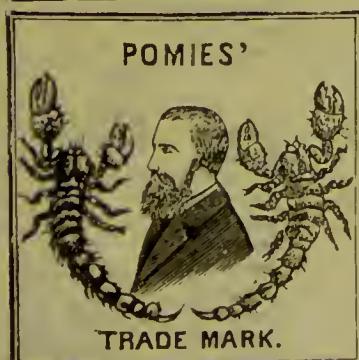
ALL CHEQUES PAYABLE TO **GEORGE HOLMES,**  
*The SOLE Wholesale Depot for Homocea,*

21 HAMILTON SQUARE, BIRKENHEAD.

Have a reputation of Nearly  
100 Years for being without  
an equal as a remedy for



Prepared by NORTON'S LTD., 21 Spital Square, LONDON, E.C.  
Proprietors of "GODFREY'S EXTRACT OF ELDER FLOWERS," &c



Ophthalmic Institution and  
Laboratory,

32 EUSTON SQUARE,  
LONDON, N.W.

# POMIES' OPHTHALMIC POWDERS AND MEDICINES

FOR THE RAPID CURE OF DISEASES OF THE  
EYE, WITHOUT OPERATION.

All Chemists should keep it. Price List sent on demand.

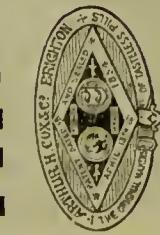
Twenty years' successful treatment in cases of Cataract, Amaurosis, Optic Atrophy, Inflammation of the Eye, Impairment of Sight, and other disorders, have established sufficiently the superiority of this mode of treatment.

GUIDE TO THE TREATMENT OF DISEASES OF THE EYE, without operation, by E. Pomies, Oculist, late Surgeon in the French Army, Gold and Silver Medallist, sent on demand to all Chemists for distribution.

The Ophthalmic Medicines are prepared and sold at the Ophthalmic Institution, 32 Euston Square, N.W.

They may be obtained also from Wholesale Dealers of Patent Medicines through the United Kingdom.

# TASTELESS PILLS.—COX'S PATENT.



DATED AND SEALED, APRIL 13TH, 1854.  
AND AS A FURTHER PROTECTION

The Registrar of Trade Marks (after giving the usual public notice prescribed by Parliament to allow of opposition) has granted us the appended Trade Mark, and no pills will be sent out without this mark on all bottles or packages.

## CATALOGUES SENT POST FREE ON APPLICATION.

These contain 800 coated and uncoated forms of different strengths, requiring not less than 3,000 bottles and jars. Many pills are now being made in imitation of ours ; inferior drugs and chemicals are used for cheapness, and the pills pass through best drugs and chemicals are used.

## COX'S TASTELESS PILLS,

*Or order direct from us, we paying postage and carriage.*

Our prices, with the usual discount for prompt payment, will be found to compare favourably with any makers where the best drugs and chemicals are used.

**ANY FORMULA DISPENSED AND COATED. QUOTATIONS AND SAMPLES FREE.**

*PILL FERRY P.B. (Bland), if properly made, are GREEN, not BROWN.*

**ARTHUR H. COX & CO., Original Makers of Tasteless Pills,  
ST. MARTIN'S PLACE, BRIGHTON.**



Telegraphic Address—“Cox Brighton.”



# GRATIS ADVERTISING.

It cannot be too widely known that Retailers of **BEECHAM'S PILLS** can have a great variety of Advertising Matter by applying to—

**The Proprietor of**

**"BEECHAM'S PILLS,"**

**St. Helens, LANCASHIRE.**

The assortment consists of Iron Tablets, Showcards, Dummies, Puzzles, Music Sheets, Oracles, and Handbills of various sizes and colour, with name and address at foot; also Rubber Stamp, with Pad complete, giving name and address.

**All Parcels are delivered per rail, Carriage Paid to destination.**

To show the genuineness of this effort to assist retailers who desire to push their own business by pushing the leading Patent Medicine, **BEECHAM'S PILLS**, no advertising matter is sent out unless by special request.

I need not remind chemists and dealers in proprietary medicines of the extraordinarily large demand there is for **BEECHAM'S PILLS**. The sale every year steadily increases, and they have by far the largest sale of any Patent Medicine in the world.

To prevent mistakes, applicants are requested to send their full name and address, in PRINT if possible, together with correct Railway address.

# DR. J. COLLIS BROWNE'S CHLORODYNE.

## IMPORTANT NOTICE TO CHEMISTS.

This preparation does not contain any poison which is included in Part 1, Schedule A of the Poisons Act; therefore the signature of the purchaser is not required.

Chemists who study their own reputations should never be thoughtless enough to sell an imitation Chlorodyne.

Any first-class old-established Chemist will tell you that Dr. Browne's preparation is the only genuine Chlorodyne.

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SOLE MANUFACTURER—

**J. T. DAVENPORT,**  
33 GREAT RUSSELL STREET, W.C.

TO THE

# CHEMISTS OF ENGLAND.

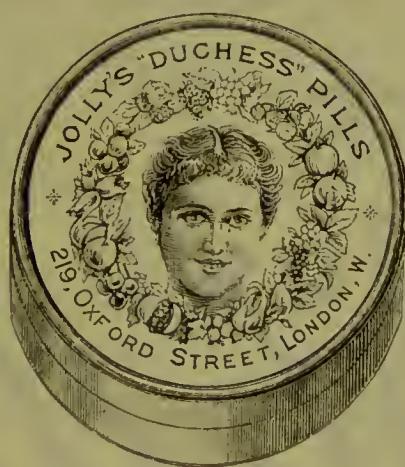
For ANÆMIA or POVERTY OF BLOOD

## JOLLY'S "DUCHESS" PILLS

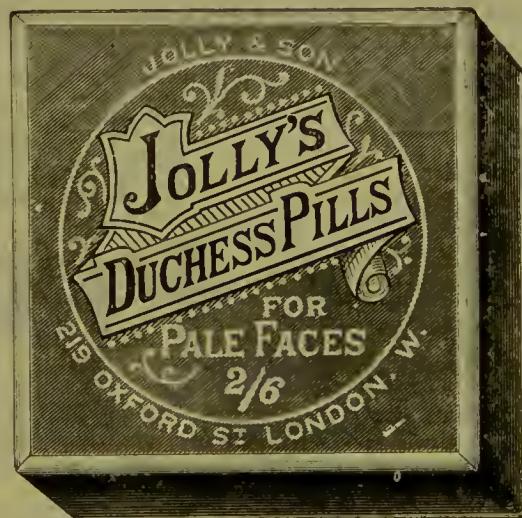
HAVE NO EQUAL.

We are willing to supply a very attractive and beautifully tinted show card the size of which is 12 by 16 inches, to any chemist on application. The design is a lady's head surrounded by a wreath of various fruits and their leaves, each fruit being reproduced in its original colour. This card is unique and cannot fail to attract notice when placed in a shop window.

Jolly's "Duchess" Pills are being well advertised, the sales are large and steadily increasing. We will supply these pills at the most reasonable terms providing you agree to show the card above mentioned in your window; and to every purchaser of 12 or more boxes we will give a written guarantee to take back any boxes not sold within a year (and return the money), if the seals have not been broken.



No. 1.—Facsimile of imitation dull gold metal box containing the pills.



No. 2.—Facsimile of imitation leather box in which box No. 1 is packed.

**NOTE.**—Each imitation dull gold pill box as shown in No. 1 is packed in a beautiful imitation leather box as shown in No. 2. These boxes are very attractive for dressing windows and counters. We will be glad to supply dummy boxes to any chemist who will undertake to exhibit them.

**ADDRESS—**

**JOLLY & SON, 219 OXFORD ST., LONDON, W.**

AND AT

14 Rue de la Paix, PARIS.    196 Broadway, NEW YORK.    71 Front Street, E., TORONTO, CANADA.

# MALT EXTRACT.

E. LECONTE & CO.

THE LARGEST MALT EXTRACT MANUFACTURERS IN THE WORLD.

*GOLD MEDALS AND LEGION OF HONOUR for Scientific Improvements in the Manufacture of Malt Extract, &c.*

**DIASTASIC MALT EXTRACT**, prepared in Vacuo from the finest Barley, and specially made for Manufacturing Chemists to combine with other preparations. Also for Medicinal purposes, Brewers, Vinegar and Wine Makers, Bakers, and Confectioners.

MALT EXTRACT MANUFACTURED ANY DIASTASIC STRENGTH REQUIRED.

**MALT EXTRACT AND COD LIVER OIL.**

Samples and Quotations on Application.

Wholesale & Export—HORSESHOE ALLEY WAREHOUSES, BANKSIDE, LONDON, S.E.

MANUFACTORIES—

ESTAIRES, LA GORGUE, MARCOING, & DUNKIRK, FRANCE.



RAIMES'



"Premier"  
*Ext. Malt.*

SIZES  
&  
SHAPES.

SAMPLES AND QUOTATIONS ON APPLICATION.



CACHOUS.

For exquisite fragrance the following are unequalled:—

FRAGRANT BOUQUET.	OPOPOONAX.	RED AND WHITE ROSES.
HELIOTROPE.	VIOLET.	ORANGE-BLOSSOMS.
PRIMROSES.		

2s. 6d. per lb. Carriage Paid on 14 lbs.

RAIMES & CO., YORK. RAIMES, CLARK & CO., EDINBURGH.

Agents—TIDMAN & SON, 21 Wilson Street, Finsbury, LONDON.

# WALTER J. CROOK, 35 EASTCHEAP, E.C.

TRADE MARK



REGISTERED.

**TARTARIC & CITRIC ACIDS** in Powder or Crystals.

**CREAM TARTAR** 99% and 100%. The only brand produced in pure Crystals of this high strength.

DITTO 95%, being about 3% above the recognised standard of the B.P.

**BORAX & BORACIC ACID**—Refined Crystals or Powder.

SOLE AGENT FOR

J. D. Pritchard's Oxalic Acid, Neutral Oxalate Potash, &c., &c. J. H. Cookson & Sons' Best Yorkshire Alum. Old Swan Borax Works. M. & C. (fire brand) Antimony. United Alkali Co.'s Hyposulphite of Soda. Blaydon Pure White Sulphate of Alumina.

## → “SAL PRÆSERVARE.” ←

A New Preservative for Milk, Cream, Butter, &c. Cheapest and Purest Preservative on the market. Samples and Pamphlet forwarded free on application. This is NOT an Adulterant. Telegrams, "Acetic London." A. B. C. Code.

# MORRIS & CALLARD,

PONTAMMAN CHEMICAL WORKS,

AMMANFORD, R.S.O., CARMARTHENSHIRE,  
MANUFACTURERS OF

**ACETIC ACID, P.B., ACETIC ACID FORT., SP. GR. 1·040**

**ACETATE OF SODA, COPPERAS,**

**PURE WOOD NAPHTHA, SULPHURIC ACID & CHARCOAL**

Telegraphic Address: "CALLARD, AMMANFORD." Prices and Samples on application. Established A.D. 1840.

# MAGNESIA

CARBONATE, CALCINED, AND HYDRATE.

## PURE FLUID MAGNESIA.

THE WASHINGTON CHEMICAL CO., LIMITED, WASHINGTON, COUNTY DURHAM, ENGLAND.

LONDON AGENTS—MESSRS. CLIFFORD CHRISTOPHERSON & CO., 17 Great Tower Street, London, E.C.

THE  
**FULLERS' EARTH MINING CO.,**  
**LIMITED.**

Works, Mines, and Offices:—WOBURN SANDS, BEDFORDSHIRE.

**BEST AND PUREST**  
**FULLERS' EARTH**  
**IN THE MARKET.**

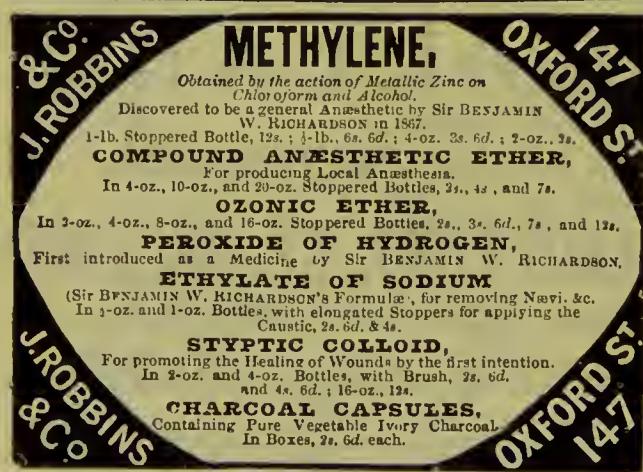
**HIGHEST AWARD CHICAGO EXHIBITION, OCTOBER, 1893.**

**SPECIALITIES.**—Lump Earth for Woollen Manufacturers, &c. Powdered Earth for Refining Oil, Lard &c. Specially selected Fullers' Earth for the Toilet and Nursery. Packed in beautifully designed Boxes.

SAMPLES AND PRICES FREE ON APPLICATION.

ACKNOWLEDGED BY ALL WHO USE IT TO BE PURE AND FREE FROM ALL IMPURITIES.

BEWARE OF SPURIOUS IMITATIONS.



GREAT REDUCTION IN PRICES!

**DENOUAL'S MEDICINAL CAPSULES**

ARE THE BEST AND CHEAPEST.

ON THESE

**MEDICINAL CAPSULES**

CHEMISTS ARE ALLOWED

A LARGE PROFIT.

SANTAL OIL CAPSULES,  
 PERUVIAN MIXTURE CAPSULES,  
 COPAIBA BALSAM CAPSULES,  
 CUBEB OIL & COPAIBA CAPSULES,  
 MALE FERN CAPSULES, &c.

**DENOUAL'S INJECTION.**

All Drugs Warranted to be Genuine

**JULES DENOUAL,**

Carlton House, 4 New Cross Road, LONDON, S.E.

DO NOT FAIL to STOCK!

IT SELLS WELL  
 WHEREVER INTRODUCED,  
 AND  
 BEARS A GOOD  
 PROFIT.

THIS

Popular  
 Laxative

Is  
 thoroughly  
 efficacious,  
 and very  
 agreeable in  
 taste and flavour.

In 2-oz., 4-oz., 8-oz.,  
 and 1-lb. glass jars.

Price on application to the  
 Manufacturers,

**C. R. HARKER,  
 STAGG & MORGAN**

15 Laurence Pountney Lane,

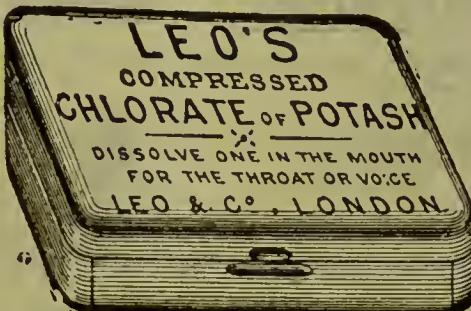
LONDON, E.C.

# LEO'S COMPRESSED DRUGS

Ammon. Brom.  
Ammon. Chlor.  
Antifebrin.  
Antipyrin  
Bismuth Subnit.  
Chloralamid  
Ipecac. Powd.  
Ipecac. & Opium  
Pepsine, B.P.  
Phenacetin  
Potass. Bicarb.  
Potass. Brom.

Maintain their high reputation against all comers for general excellence of quality and finish.

When  
ordering  
specify  
LEO'S.



They are supplied by all the Wholesale Houses

Potass. Iodide  
Quinine  
Salol  
Salicin  
Soda Bicarb.  
Soda Mint  
Soda Salicylate  
Sulphonal  
Sulphur Compound  
Urethane  
Voice (Potass. Chlor.,  
Borax and Cocaine)

[2]

## COMPRESSED CHLORATE of POTASH. CHLORATE OF POTASH & BORAX.

Quotations given for large and small quantities.

**LEO & CO., 8 CREECHURCH LANE, LONDON, E.C.**

## NEPENTHE.

### THE SAFEST AND BEST PREPARATION OF OPIUM.

PRODUCES NEITHER HEADACHE, SICKNESS, NOR CONSTIPATION.  
PREPARED EXCLUSIVELY FROM OPIUM.

Although many new hypnotics and analgesics have been recently introduced, NEPENTHE still holds its position as THE hypnotic and sedative par excellence. "Nepenthe" is registered under the Trade Marks Act, and is our sole property. No other preparation should be substituted when Nepenthe is ordered in a prescription.

Sent out in bottles bearing a label in white letters upon a green ground. We prepare also Double Strength Nepenthe, and Glycerole of Nepenthe (eight times the single strength) for hypodermic injection.

PRICES AND TERMS ON APPLICATION.

**FERRIS & CO., WHOLESALE AND EXPORT DRUGGISTS, BRISTOL.**

## DR. BOW'S LINIMENT.



Of late a spurious article has been offered for sale, put up in imitation of the genuine one even to copying the Pamphlet, Wrapper, and Labels. To protect the public from, and facilitate proceedings against, such frauds, the Proprietor has registered the Trade Mark here shown, a reduced copy of which will be found on the outside label on every bottle put up after this date. As a further security, the name "DR. BOW'S LINIMENT" (also a trade mark) appears in the Government Stamp.

**BARCLAY & SONS, LIMITED, LONDON  
RAIMES, CLARK & CO., EDINBURGH & YORK**

} For the Proprietor,  
December 1st, 1891.

# HAWLEY'S COUNTER ADJUNCTS.

**PREScribe CASCARA-HAWLEY  
FOR CONSTIPATION.**



A reliable laxative is often wanted (especially for Ladies and Children), tasteless, and that can be swallowed with ease. Nothing can be better than the B.P. fl. Extract of Cascara Sagrada, rendered tasteless by an envelope of gelatine. Each Capsule is equal to  $\frac{1}{2}$  drachm of fl. Extract. In Pregnancy and Habitual Constipation invaluable.

Box 20, 1/1 $\frac{1}{2}$ ; 100, 4/6 per box; 10/- & 40/- per doz.

**PREScribe SAVAR'S CUBEB  
CIGARETTES FOR ASTHMA  
AND LONDON FOGS.**



Is there any real palliative for Asthma and Chronic Cough? Cubeb smoked so as to get the effect of the resins down the Throat is always worth a trial. Here we have the effect aided by Stramonium and softened by Cannabis Indica. To be smoked through the nose for Hay Fever.

[10]

Boxes, 1/- & 2/6; 9/- & 24/- per doz.

**EVANS, LESCHER & WEBB, 60 BARTHOLOMEW CLOSE, LONDON.  
PARIS AND SYDNEY AGENCIES.**

**EVANS, SONS & CO., LIVERPOOL. EVANS AND SONS, LIMITED, MONTREAL.**

ESTABLISHED 1775.

**ALFRED WHITE & SONS.**  
MANUFACTURING CHEMISTS.

Manufacturers of Acids, Ethers, Sp. Ether. Nit., Sp. Ammon. Arom., Liq. Ammon., Soldering Solution, &c., and preparations of Alum, Animal Charcoal, Antimony, Baryta, Bismuth, Strontia, Zinc, &c.

**CASTLE STREET, SAFFRON HILL, E.C.**  
Works:—WEST DRAYTON, MIDDLESEX. Telegraphic Address:—"ETHERMETHYLATED LONDON."

**THYROID EXTRACT**  
(FOR MYXÖDEMA).

A Glycerine Extract of fresh Thyroid Glands, uniform in strength. Prepared from healthy glands, selected under veterinary supervision. A permanent preparation not liable to decomposition. Well suited for internal administration. A certain remedy for the hitherto inevitably fatal Myxedema. Useful in Goitre, Cretinism, &c. Found very successful in the treatment of Psoriasis (see BRIT. MED. JOURNAL, October 28, 1893, page 933). Exerts a wonderful effect on the nutrition of the skin, and hence deserves wide trial in skin-diseases. Promotes the growth of the hair, and may prove of use in baldness of some kinds.

Price 3s., in 1-oz. stoppered bottles. Dose— $\frac{1}{2}$  oz. to 3j.

**THYROIDINE**, containing the active principle of the Thyroid Glands of the sheep, 4 grains equal to about one-eighth of a fresh gland. Also PILLS and TABLETS, each containing a dose of Thyroidine.

In bottles, 2s. 6d. each.

**Willows, Francis & Butler,** Wholesale & Manufacturing Chemists & Export Druggists, **101 High Holborn, London.**

ESTABLISHED 1751.

# DR. LAHMANN'S COTTONWOOL } OR { DR. JAEGER'S SHEEPWOOL?

The following Letter appeared recently in "THE HERALD OF HEALTH." The next number brought an answer to it, signed DR. JAEGER'S SANITARY WOOLLEN SYSTEM COMPANY, LIMITED, which, in its turn, was answered by DR. LAHMANN'S COTTONWOOL UNDERCLOTHING AGENCY, 15 FORE STREET, E.C., who will be pleased to send gratis and post free a reprint of all the three letters to any reader of "The Chemist and Druggist," together with Price List, Cuttings, and Testimonials from HOME, from INDIA, and from CANADA !

To the Editor of THE HERALD OF HEALTH.

I owe so great a debt to the *Herald of Health* that I have often wished for some opportunity of repaying part of my obligation. Such an opportunity seems now to present itself.

The superstition of "woollen next the skin" possessed me for half a century. Others, including the most ardent food reformers, labour under a like delusion. I have been a slave to all its forms: flannel, coarse and fine; the best Scotch wool vests; and, finally, Dr. Jaeger's shirts. A year ago the notion of casting off my flannels would have seemed to me madness. However, I read about Dr. Lahmann's reform—the substitution of a special kind of cotton that did not shrink, did not thicken, and did not chafe or stimulate the skin; did not absorb, and was always clean. At first I wondered; but I could not resist the reasoning. I knew from sad experience how the most perfect woollen fabrics shrink, and form a hard, felty mass, more like leather than a soft garment; and how they take up the perspiration, and become redolent of cast-off humanity. I was charmed with the notion of a shirt that would not absorb sweat and other excretions of the skin, as wool does, but would transmit them to the outer air, so that a cotton of this open texture is cleaner after seven days' wear than wool after seven hours'. This

is the theory. I resolved to submit it to the test of practice, and ordered two of those special shirts from the Lahmann Agency. They came down by return of post. It was one of those very hot days we had in early June, thermometer 85° in the shade, and 100° in the sun. I had been out for a walk, and returned at mid-day with my flannel in a soppy state. Finding the parcel on my table, I took a copious shower-bath, put on one of the shirts, and felt more comfortable than ever I did in my life; walked out again in the afternoon, and felt no oppression. Next day the thermometer fell 30°; this was a severe test; but I felt no chill. The day after we had rain from morning till night. The climate is very variable here, but in sunshine and storm, for more than three months, I have felt the comfort of my new clothing, so that I have ordered a complete set of underclothing of a thicker make for winter.

Lest it should be thought the writer has any interest, direct or indirect, in the Lahmann enterprise, I give my name and calling.

I know nothing of Dr. Lahmann or his work, except what I read in his prospectus and enjoy in the use of his appliances; and I have written this that others may derive the same benefit from them as

Your obliged servant,

T. A. CROWTHER, D.D.

The College, Dumfries.

THE LAHMANN AGENCY, 15 FORE STREET, LONDON, E.C.

# CHEMIST AND DRUGGIST'S BOTTLES AND GLASSWARE

EVERY CLASS AND DESCRIPTION  
AT  
**MANUFACTURER'S WORKS PRICES**

Send for

**REVISED (Illustrated) PRICE LIST**

**BREFFIT'S,**  
LIMITED,

**83 UPPER THAMES STREET, LONDON.**

(SEE OPPOSITE PAGE.)

Telegrams—"Brefft's London."

Telephone No. 1843

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BOTTLES



- FOR DISPENSING**
- PATENT MEDICINES**
  - PROPRIETARY ARTICLES**
  - PERFUMERY FACTORS**
  - CHEMISTS' SHELVES**
  - POMADES**
  - GLYCERINE**
  - CITRATES**
  - CORDIALS**
  - HONEY**
  - AERATED WATERS**
  - WINTER DRINKS**
  - ALE and BEER**
  - SAUCES**
  - PICKLES**

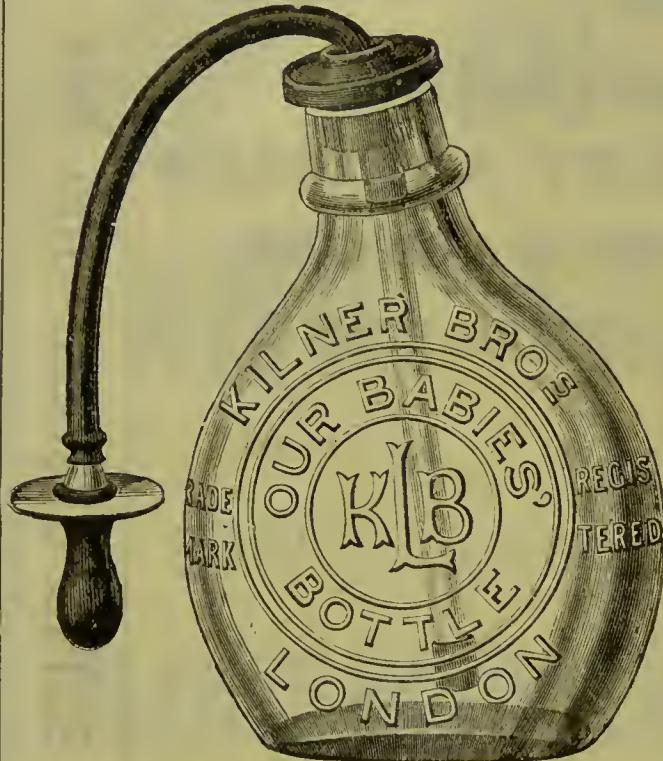
**GREATEST TRADE VARIETY.**

SEE: OPPOSITE PAGE.

SEND FOR OUR REVISED PRICE LIST, ILLUSTRATED.



# GLASS BOTTLES



## FEEDING BOTTLES.

No.	6½-inch Rubber Tube.	Small lots.	2-gra. lots.	
1.—Green Bottles, Boxwood Top Corks,				
White Fittings	... ... ...	25/-	24/-	
8.—Ditto, Black Fittings	... ... ...	27/6	26/6	
				{ per gross.
	White glass 2/6 per gross extra.			
	China tops 1/6 per gross extra.			
84.—Green Bottles, Glass Screw Stoppers,				
White Fittings	... ... ...	30/-	29/-	
66.—Ditto, Black Fittings	... ... ...	32/6	31/6	
	White Glass 3/- per gross extra.			

These prices include 1 doz. partitioned Wood Boxes. If  
Bottles are loose 1/9 per gross less.  
Supplied each Bottle in Cardboard Box at 4/6 per gross extra.

DISPENSING BOTTLES.  
BEST QUALITY,  
SUITABLE FOR A HIGH-CLASS TRADE.

## GREEN FLINT.

Flats (ordinary and round edges), Ovals, Direct Squares, Rounds and Octagons (plain, graduated, and lettered),

3	4	6	8	12	16	oz.
10/-	10/-	11/8	11/8	16/6	21/6	per gross.

## WHITE VIALS (Plain and Graduated),

1	1½	2	3	4	oz.
4/4	4 6	5 3	6 -	8 -	9 3 per gross.

A second quality supplied at lower prices.

SAMPLES ON APPLICATION.



FLAT—with Round Edges.

## MINERAL WATER BOTTLES AND BOXES, SEE NEXT PAGE.

Illustrated Catalogue containing full particulars sent on application to

**KILNER BROTHERS,**

NO. 3 GREAT NORTHERN GOODS STATION, KING'S CROSS, LONDON.

# MINERAL WATER BOTTLES

Of all kinds and sizes for STOPPERS and CORKS.  
Carefully Made and Fitted.

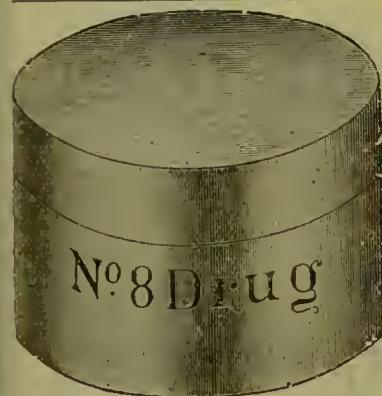
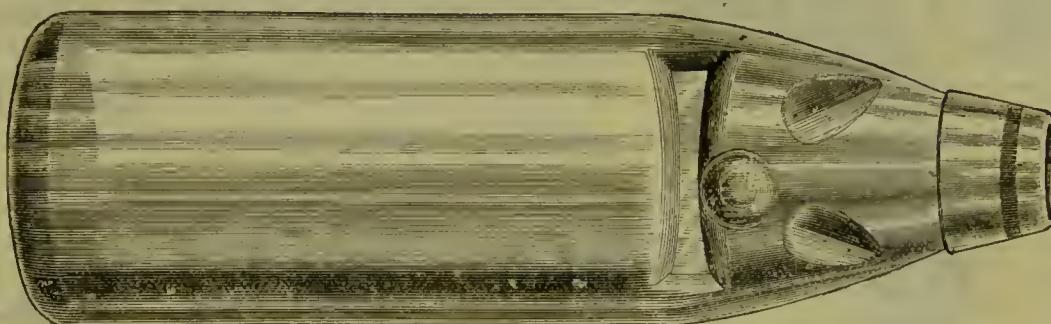
BEST QUALITY. LOW PRICES.

As supplied to many of the leading firms in the Aerated Water trade.

Also VAN BOXES and CASES for same.

CODDS' BOTTLE

TWO-WAY.



ENGLISH AGENTS FOR  
E. B. ESTES & SONS'

AMERICAN

TURNED  
WOOD

**BOXES**



FOR PILLS, OINTMENTS, POWDERS, &c.

SCREW-TOP BOXES FOR VIALS.

CASES for VIALS, SYRINGES, &c.



**SQUARE LOCK CORNER BOXES.**

STRONG. LIGHT. CHEAP.

ONCE USED—ALWAYS USED.



**KILNER BROS., KING'S CROSS, LONDON, N.**



Warehouse :

Telegraphic Address : "FISH, LONDON."

North Quay, West India Import Dock.

Telephone : 1365.

# JOHNSEN & JÖRGENSEN

Offices and Showrooms :

BOTOLPH HOUSE, EASTCHEAP,

LONDON, E.C.

PLEASE REGISTER OUR NEW ADDRESS

## WE SUPPLY BOTTLES FOR THE BEER, WINE AND SPIRIT TRADE:

All current sizes in stock. *Special Features* : TURNED BOTTLES, VERY FINE AMBER GLASS.

## FOR MINERAL WATER MAKERS:

BOTTLES and SYPHONS—not fitted; exceptional strength.

## FOR CONFECTIONERS AND JAM MAKERS:

JAM JARS in stock.

## FOR CHEMISTS AND DRUGGISTS:

DISPENSING and other current Bottles in stock.

## MANUFACTURING CHEMISTS AND PATENT MEDICINE MANUFACTURERS:

Every description for *Specialities* in magnificently TINTED, AMBER, and WHITE GLASS made to order. Large collection of various shapes.

## FOR PERFUMERS:

*Speciality* : With GROUND GLASS STOPPERS.

## FOR HOME TRADE AND EXPORT.

The high quality and fine tints of our Glass and the excellent finish of our Bottles are greatly appreciated by the different Trades, therefore in soliciting your kind inquiry when a buyer and an early inspection of our Showroom, we feel confident of being able to give you every satisfaction.

Established over a quarter of a century.



PATENT CAPPED POMADE,  
2-oz. squat.



ACTINIC GREEN DK (Door  
Knob) STOPPERED SNELLING  
SALT BOTTLE.



ROUND CORNER POMADE  
BOTTLE.



Medicated Tablet Bottle.

# R. H. BARRETT

THE OVAL,  
CAMBRIDGE HEATH, E.

Has the largest and most varied stock of moulds in London, and any firms requiring plain, capped, or stoppered bottles of all kinds would do well to apply to him before ordering.

Special attention is given to stoppering, which is all done on the premises by skilled workmen.

All the usual kinds of Chemists' and Perfumers' Bottles, plain and stoppered, are made by R. H. B. at his works, and supplied on the most favourable terms.

APPLY TO

# R. H. BARRETT,

FLINT GLASS BOTTLE MAKER,  
The Oval, CAMBRIDGE HEATH, E.

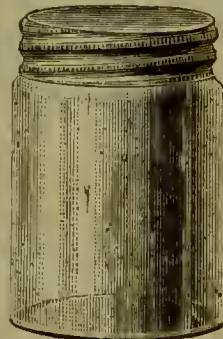
Telegraphic Address—"Forefront London."



PATENT CAPPED POMADE,  
2-oz. tall.



"LUNDBORG" SHAPE PERFUME  
BOTTLE.



WHITE METAL SCREW-  
CAPPED POMADE BOTTLE.





**EAST LONDON  
E. YOULDON, GLASS BOTTLE WAREHOUSE,**

36, 38, & 40 Great Garden St., Whitechapel, LONDON, E.

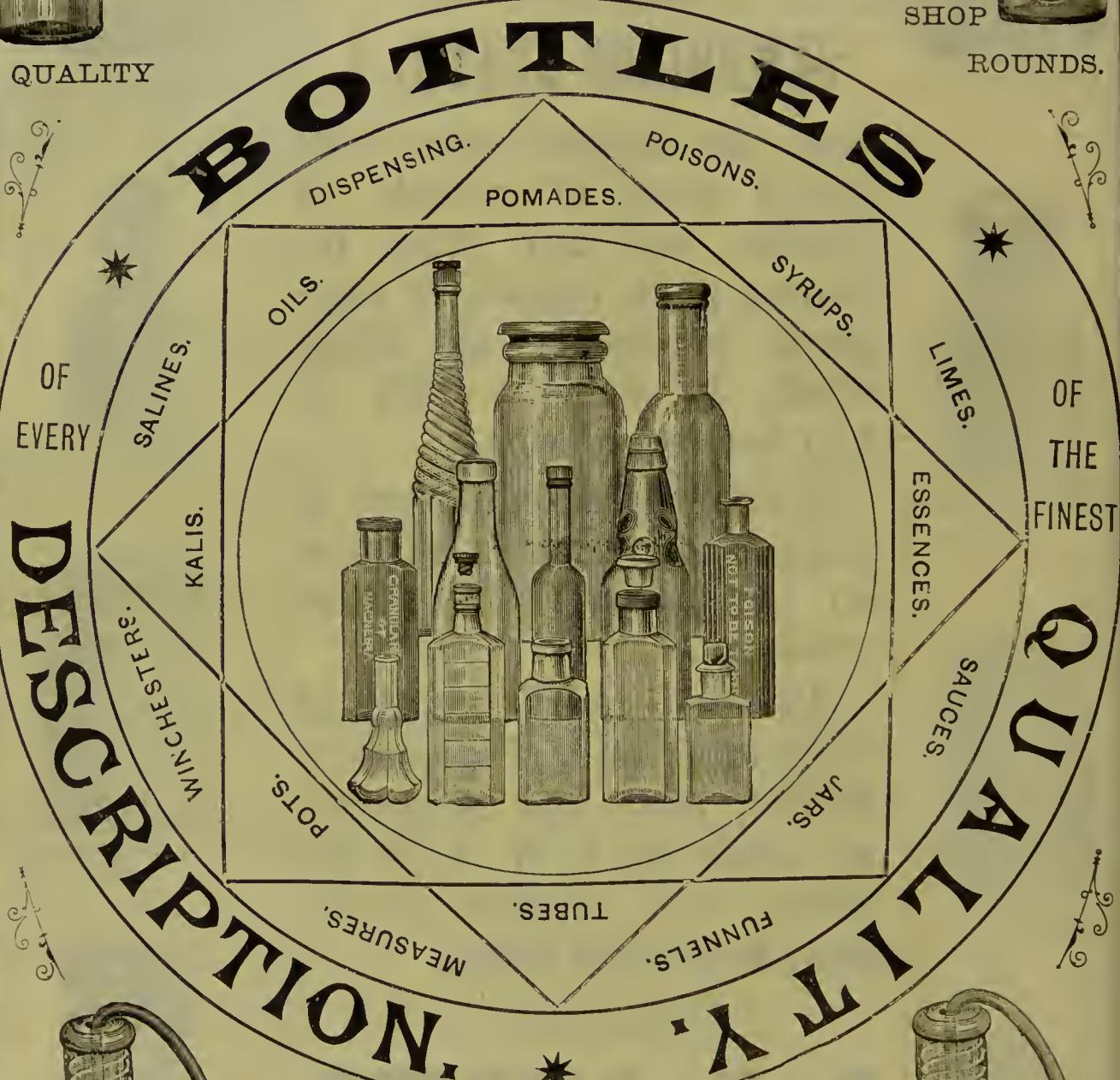
SUPERIOR

HAND-MADE

SHOP

QUALITY

ROUNDS.



OUR FEEDING BOTTLES ARE ACKNOWLEDGED TO BE  
**THE BEST**

EVER OFFERED AT THE PRICE.

Price List and Samples sent on application.



# HEARN'S BOTTLES

**ARE THE BEST IN THE MARKET.**

BOTTLES, &c., of ANY SHAPE OR COLOUR, at the most Reasonable Prices.

**HEARN, WRIGHT & CO.** (Late E. A. Hearn & Co.) Wholesale & Export Glass Bottle Manufacturers. Eclipse Glass Works, Chatsworth Road, Clapton, London, E. SEE INSET BETWEEN pp. 128 and 129.

**MESSRS. COMPES & CO.'S**  
(Ceresine Wax Refiners and Carnauba Wax Bleachers)  
**GUARANTEED PURE**

## CERESINE WAX

Can now be had in single cases from their London Stock.

**F. PFISTER,** SOLE AGENT,  
15 Fore Street, LONDON, E.C.

A GOOD LINE FOR THE TRADE.

## MEDICINE TIME INDICATOR

And POISON PREVENTIVE.



This invention is for use on Medicine Bottles, for recording the time of last dose or when the next dose should be given. It also distinguishes medicine bottles from others containing poisons or preparations NOT intended to be taken. It comprises a label or tablet of paper, upon which is printed a series of numbers from 1 to 12 inclusive. A pointer is arranged in connection with the label so that it might be set opposite any of the numbers to indicate the time when a dose was last taken or when it should be next given. The label is gummed to or suspended from the bottle, or it may be placed in any convenient position in the patient's room if medicine for internal use only is being administered. It enables the patient or nurse to readily distinguish the bottle, thus obviating the liability to accidents, and is valuable for family use, by nurses in hospitals, for travellers, or for general use by Doctors and Chemists.

Special Terms to the Trade. Apply to the Patentee—

J. FEAVER, 83 Croydon Rd., ANERLEY, S.E.

## GLASS BOTTLES GOOD AND CHEAP.

From Stocks  
in London or  
direct from  
the works.

### THE NEW SHAPE FLATS,

With rounded edges, or the ordinary kind, plain or graduated.  
3 and 4 ounce .. .. .. 8/- per gross.  
6 and 8 .. .. .. 9/- "

### WHITE MOULDED PHIALS.

1 oz.	1 oz.	1½ oz.	2 oz.
3/6 ..	3/9 ..	4/6 ..	5/3 per gross.
2 oz.	4 oz.	6 oz.	8 oz.
7- ..	8- ..	9- ..	9/- per gross.

### PANEL BOTTLES.

SPECIAL NOTICE.—Six gross and upwards of assorted sizes sent Carriage Free to any part of England. Smaller quantities not carriage paid. Sample bottle sent free on application.

**I. ISAACS & CO., GLASS BOTTLE MANUFACTURERS,**  
Francis St., Tottenham Court Road, LONDON, W.C.  
Established 50 years. Bankers—London and Westminster Bank.

## ADVERTISING BALLOON CO. ALTRINCHAM, ENGLAND.

Advertising Balloons, printed with name, trade, and address, from 12/- per gross; each Balloon fitted with the improved long nozzle, so that a child can blow them out. We put name, &c., one side, and any figure the other. As a testimony to the quality of our manufactures, the largest advertising firms in the world have adopted our goods in preference to foreign-made articles. Makers of all kinds of Pessaries, Skins, Sheet Rubber Surgical Appliances, &c., &c. Special terms for Shipping and the Wholesales.

*Notice.*—To prevent disappointment, no notice will be taken of application for wholesale terms unless accompanied with *bona-fide* manufacturer's references.

Sample Rooms—o Newton St., PICCADILLY, MANCHESTER.

All our own manufactured goods bear the above Trade-Mark—3 Balloons.



## HAS BROUGHT HARRISON'S XYLONITE EYE CAPS AND READING SHADES

up to date. For lightness, cheapness, and usefulness they are simply perfect. Celluloid in imitation of watered silk. Aluminium Head Clips and Covered Silk Bands, &c.

Every up-to-date Chemist should keep them on his counter. They are outside the range of imitation and competition. Side by side with any other Shade for protecting the eyes comparison would be odious. Of all Chemists and Opticians and of the maker

T. H. HARRISON, 40 Hatton Garden, LONDON, E.C.

**ROTARY PILL MACHINES**



Fig. A.

Fig. A.—This invention consists in a novel and improved arrangement of Machinery, whereby any description of Pill Mass can be converted into Pills, at the rate of from 15 lbs. to 40 lbs. per hour, according to the size of the Machine used.

Fig. A.—No. 1 .. £12 12s.  
No. 2 .. £15 15s.  
No. 3 .. £20 0s.

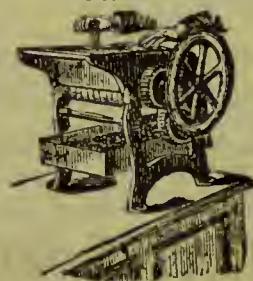


Fig. B.

Fig. B.—A small useful Machine capable of making 10 lbs. of Pills per hour, particularly adapted for persons making small quantities, at £7 15s.

Prices suitable for same, £2 15s.

Any of the above can be made to cut two or three different size Pills at an additional cost for extra Rollers and Plates.

**PIPING PRESSES**

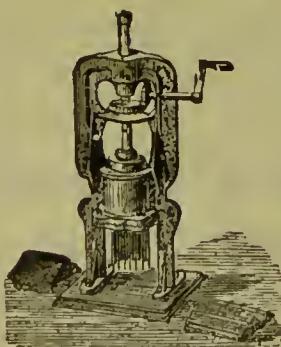


Fig. C.

Fig. C. is the improved Press for Piping, by means of which a great quantity of Mass can be Piped in a few minutes, truer than by the old method of rolling.

No. 1 .. £3 0s.  
Fig. C.—No. 2 .. £5 10s.  
No. 3 .. £8 10s.

# J. W. PINDAR'S NEW ROTARY PILL MACHINES

As used to this date by Messrs. Holloway, Cockle, Cox, and all the principal Pill Makers in Europe, Asia, Africa, America, and Australia.

29 Murray St., New York,  
and Farrington Rd.,  
London, Nov. 9th, 1880.

Mr. J. W. PINDAR,  
Dear Sir,—Your letter of inquiry came duly to hand. As I always told you, the Pill Machine in operation at my London warehouse has given entire satisfaction. So have those we are using in this country. We can make smooth, round Pills of uniform size at a very small expense. I can safely say that your Pill Machine is all that you claim it to be—a perfect Machine.

Yours truly,  
A. J. WHITE.

✓ 224 Strand, 13th March, 1868.

Mr. J. W. PINDAR,  
Sir,—I have much pleasure in stating that the Pill Machine which you made for me answers remarkably well, as the Pills are far better made than those by hand-machines, and with much less waste. I can, therefore, confidently recommend it as a very excellent one, a great saving of labour and, consequently, expense.

I remain, yours faithfully,  
THOMAS HOLLOWAY.

3 Orane Court, Fleet Street, Feb. 14th, 1871.  
To Mr. J. W. PINDAR.

Dear Sir,—We have now used your Rotary Pill Machine about six years, and find it answers better than any we had previously used, and makes the Pills of a very regular size.—Yours truly,

T. WHELTON.

J. W. PINDAR'S

Improved Double-Action

# TINCTURE PRESSES

(As approved of by Wholesale Chemists.)

Superior to Hydraulic,

On account of holding  
the pressure.

Prices for One Gallon,  
£3 10s.

For each additional  
Gallon, £1 10s. extra.

Directions for use  
forwarded with each  
article.



338 Oxford St., opposite Great Portland St.,  
Feb. 11th, 1871.

Mr. J. W. PINDAR,  
Sir,—The Rotary Pill Machine and Press which we had from you (for a special order) answered very satisfactorily.—We are, Sir, yours respectfully,

JOHN BELL & CO.

# NEW PATENT 'ECCENTRIC' PILL COATER.

Invented and made by J. W. PINDAR, Patentee.

By an entirely new arrangement of mechanism this machine is constructed in a manner which supersedes all others, as, owing to its "Eccentric" motion, the Pills—which may be coated with Pearl, Silver, Gold, or Sugar, &c., &c.—are thoroughly separated from each other during the process, and retain their original spherical form, whilst being thrown round the receptacle with remarkable velocity.

These machines are equally adapted for coating large or small quantities; thus, a machine constructed for and suitable for coating 20 lbs. will coat 1 lb. only with equal efficacy, and in the most satisfactory manner.

Each machine is supplied with a Drug or Powder Sifter, to be attached if required, and which, fitting to top of Pill Receptacle, is subject to the same "Eccentric" motion as above mentioned.

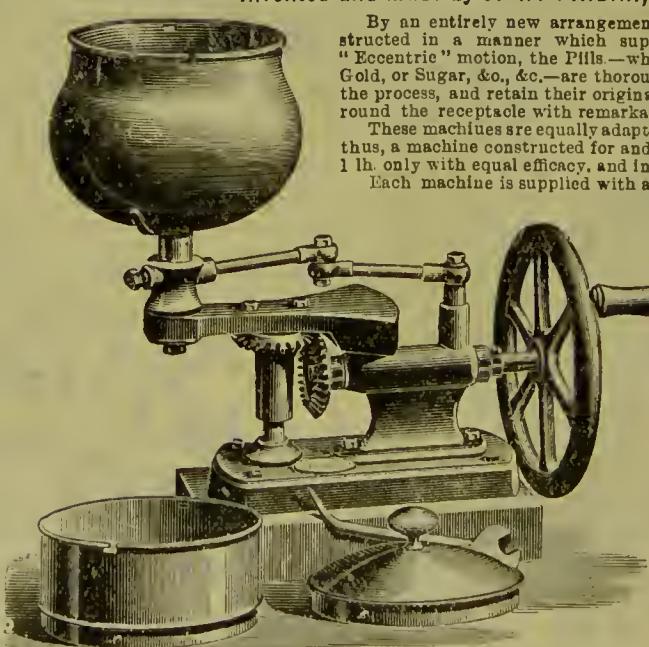
This addition will be found of great advantage in the Laboratory, being both efficient and compact.

**PRICES.**

No. 1.—For 2 lbs., £3 5s.;  
sifter for same, 7s. 6d.  
No. 2.—For 5 lbs., £4 15s.;  
sifter for same, 15s.  
No. 3.—For 10 lbs., £6 15s.;  
sifter for same, £1 5s.  
No. 4.—For 20 lbs., on Iron  
Standards, for Steam, Gas,  
or other power, £15 15s.;  
sifter for same, £2 5s.

The smallest Machines can be worked by Steam Power at a small additional cost.

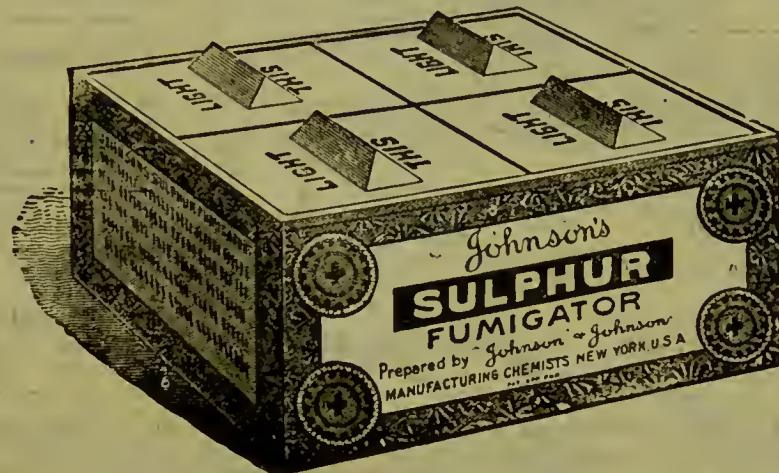
These Prices are subject to alteration.



Testimonials from all parts of the World may be seen on application to

**J. W. PINDAR, 75 New Church Rd., Camberwell, LONDON.**

# JOHNSON'S SULPHUR FUMIGATOR

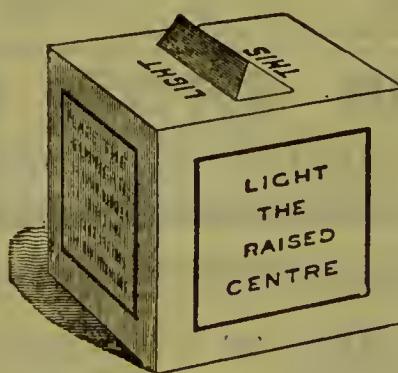


FOR FUMIGATING INFECTED ROOMS AFTER

Cholera, Diphtheria, Typhoid Fever, Smallpox,  
Scarlet Fever, and other Contagious Diseases.

Destroys *noxious* vapours from sewers, &c. By the use of these Fumigators a safe and convenient mode of burning sulphur indoors is provided. One Fumigator is sufficient for an ordinary sized room.

For small rooms or cupboards, closets, &c., one of the cubes, as below,



Can be removed from the box of four and burnt separately.

**JOHNSON'S FUMIGATOR** is put up in a specially prepared FIREPROOF BOX, which will not burn or become red hot like tin or other metal packages.

*Packed in neat Show Boxes with folding covers. A showy Counter Article.*

CAN BE PROCURED FROM ANY OF THE WHOLESALE HOUSES.

In ordering from Wholesale Trade specify **JOHNSON & JOHNSON**.

**JOHNSON & JOHNSON**, 12a Long Lane, **SMITHFIELD, E.C.**

# THE SUSPENSORY BANDAGE

TO RECOMMEND IS THE

## "SYRACUSE,"

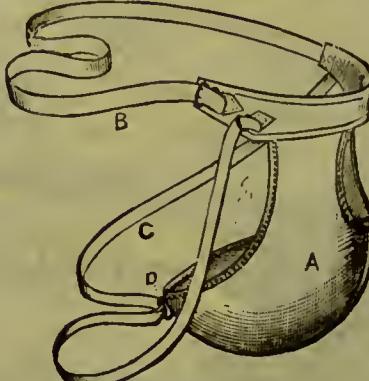
With Self-Adjusting Loop at Back of Pouch.  
(PATENTED IN ENGLAND.)

HAS THE LARGEST SALE  
OF ANY SUSPENSORY BANDAGE  
IN THE STATES.

8 SIZES—Large, Medium, and Small.

Made in Seven Qualities, to suit all Markets.

Each Bandage is carded separately, with Printed Guarantee.



Each Bandage bears a Guarantee  
to give satisfaction to wearer, or  
money returned at our expense.

### COTTON POUCHES.

No. 10	16	21
6/6	12/	18/ per doz.

### SILK POUCHES.

No. 26	31	34	38
24/	80/	48/	72/ per doz.

We call attention to the fact that our Bandages are advertised in all the leading Athletic papers, and are largely used by Athletes of all kinds. We would strongly recommend all Chemists who require a first-rate Bandage, and who wish to give satisfaction to their Customers, to hold stock, which will enable them to supply our Bandages when asked for.

May be obtained from all leading Druggists' Sundries Houses throughout the Country, or from the  
**WELLS MANUFACTURING CO. (H. C. Quelch), LUDGATE SQUARE, LONDON, E.C.**

### WATERPROOF

HOSPITAL  
SHEETINGS.

PINK  
JACCONET.

### FABRICS, ETC.



BANDAGE  
CLOTHS.

WATER-  
PROOF  
LINT.

**THE VICTORIA RUBBER CO.,**

London Office and Warehouse—74 and 75 FORE STREET, E.C.

Victoria Indiarubber Mills, EDINBURGH.

Samples, &c., on application.

**ESCHMANN BROS. & WALSH,**  
Inventors and Manufacturers of the  
SOFT SILK FLEXIBLE CATHETER, GUARANTEED WITH WOVEN EYES.

To be had of all Surgical  
Instrument Makers  
and Wholesale Houses.



To be had of all Surgical  
Instrument Makers  
and Wholesale Houses.

### H. STATHAM & CO.'S POROUS

RUBBER Elastic BANDAGES,  
For the Cure of Ulcers and other  
Diseases of the Leg.

With either Tapes or Elastic Button  
Fastening, in Grey or Black, made  
from the finest Para Rubber.

Sizes and Prices each, Carriage paid.

5 ft. x 24 in. wide 2/- .. x 3 in. 2/3

7 1/2 " x 2 1/2 " 3/- .. x 3 in. 3/6

10 1/2 " x 2 1/2 " 4/- .. x 3 in. 4/6

15 " x 2 1/2 " 6/- .. x 3 in. 6/9

21 " x 2 1/2 " 8/- .. x 3 in. 9/-

None genuine without Res d. Trade

Mark (a Human Leg) stamped on  
every Bandage.

Liberal discount to Chemists on application.

New Illustrated Price List of Indi-  
rubber and Gutta-percha Articles of  
every description sent free on receipt  
of post-card.



### "NATIONAL" {Trade Mark.

RUBBER  
ADHESIVE  
PLASTER.

On Strong Cotton Cloth.

Will always stick at once, and perfectly, in any temperature.  
without warming.

In Tins containing } 7 1/2 inches x 1 yard  
12 " x 5 " and on Handsome Spools } 1 1/4 in., 2 in., and 3 in.  
wide.



MANUFACTURED BY

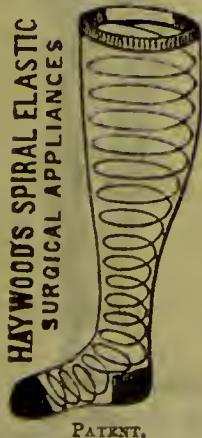
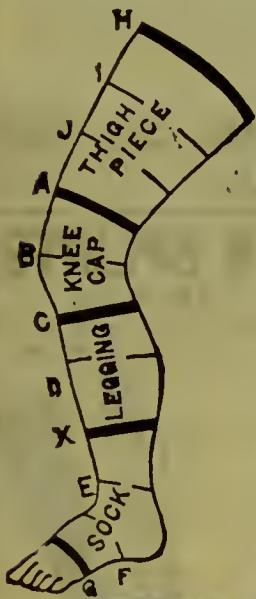
H. STATHAM & CO., Corporation Street, MANCHESTER.

A. de St. DALMAS & CO., LEICESTER.

Telephone 489.  
Telegraphic Address,  
Appliance  
Nottingham."



Adjustable Stocking  
(Patent).



PATENT.

## Surgical Elastic Stockings and Appliances.

**Merchandise Marks Act, 1887. 50 and 51 Vict., ch. 28.**  
*This Act is passed to enable the public to know when they have a genuine article offered to them*

J. H. HAYWOOD, Nottingham, manufactures appliances which he guarantees as being made from the best materials that can be purchased and of the best workmanship. His make of Surgical Stockings, &c., may be known by the letter H, woven in the top of the articles, and his Trusses, Belts, Suspenders, &c., by his monogram stamped on them, to imitate which renders the imitator liable to imprisonment with hard labour for a term up to two years, and the article to be forfeited.

Particular attention is called to the following, most of which are Patented or Registered, and cannot be obtained from any other house.

### CHEST EXPANDING BRACES

For Stooping Shoulders and Contracted Chests:  
This invention keeps the Shoulder Straps from cutting under the arms, whilst any pressure can be obtained on the front of the shoulder.

### THE PATENT "ADJUSTABLE" SURGICAL STOCKING.

A Perfect Bandage. The pressure can be adjusted on every inch separately throughout the Stocking.  
Suitable for Foreign and Colonial Trade, as can be adjusted for Three or Four Sizes.

### 'OCTOPUS' SUSPENDER.

The Band of this Suspender being cut a peculiar shape, so as to fit parallel with the External Oblique Muscles, and Buckling on each side of the Purse, clings to the Body as firmly as an "Octopus." It can also be adapted by the buckles to fit a wide range of sizes.

### EXCELSIOR TRUSS

Registered 20,334.

This TRUSS is an improved form of Mac Main. It has a Spring inside the Pad, and from its peculiar form it fits firmly on the Rupture. The Band is shaped wide and fits firmly and comfortably into the back, and will not slip down.

### SEAMLESS SPIRAL ELASTIC SURGICAL STOCKINGS.

Patent, made from Patent Machinery, and are on an entirely different principle from those generally in use.

The advantages are:—1. The India-rubber Thread being run into the Fabric in one CONTINUOUS PIECE, and no binding used, adapts itself to the shape of any leg, &c., and gives EQUAL PRESSURE throughout. 2. There are NO SEAMS to irritate.

Regular shapes guaranteed. Made in Healthy Workshops, and thoroughly disinfected before sent out.

### MAGNETIC APPLIANCES FOR

Rheumatism, Sciatica, Weakness, Lumbago, &c. Appliances to fit any part of the body.

Bathing Caps, Spout Bags, Suspensory Bandages, Chest Protectors, Medical Glass, Waterproof Sheetings, Bandages, Air Cushions, Crutches, Enema Apparatus, Instruments, India-rubber, Dress Preservers, Nursing Aprons, Spinal Supports, Leg Irons, Infants' Belts, Bathing Gloves, Elastic Webs, Urinals, Druggists' Sundries.

### LADIES' AND MEN'S BELTS, Horses' Ear Caps, Bandages, Trusses of all kinds.

### SURGICAL BANDAGES, ALL KINDS, Chamois Leathers, Surgical Nets.

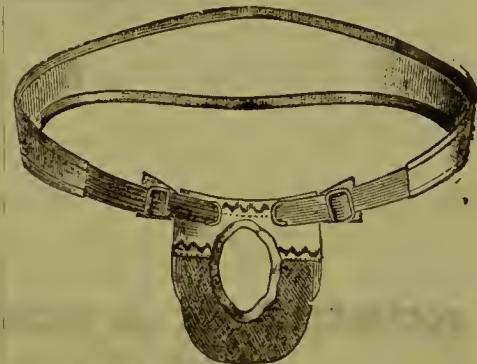
Departmental Lists are printed of Bandages, Belts, Braces, Magnetic Appliances, Surgical Elastic Stockings, &c., Suspensory Bandages, Trusses, Chamois Leather Articles, as Hosiery, &c., Surgical India-rubber Sundries, Druggists' Sundries, Invalids' Winter Appliances, all or any of which will be forwarded on application, free by post.

**J. H. HAYWOOD,**  
CASTLE GATE, NOTTINGHAM.

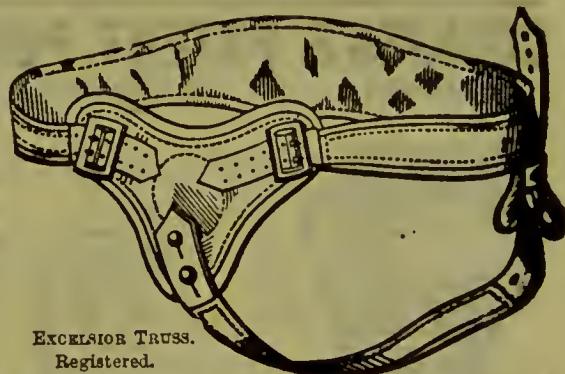
PATENTEE AND MANUFACTURER,  
Surgical, Electrical, Athletic, and Veterinary  
Appliance Manufacturer,



Patent—New Style.—Pressing back the Shoulders, but not chafing under Arms.



OCTOPUS SUSPENDER. Registered 185,223.



EXCELSIOR TRUSS.  
Registered.



LADIES' BELT.

LINTS.

BANDAGES.

*Absorbent  
Surgical Dressings.*

GAUZES.

WOOLS.

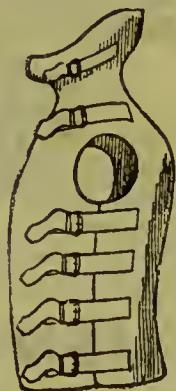
**ROBINSON & SONS, LIMITED,** Wheat Bridge Mills, Chesterfield.  
And 55 Fann Street, Aldersgate Street, London, E.C.

## COCKING'S PATENT PERO-PLASTIC JACKETS & SPLINTS.

JACKET.

CERVICAL JACKET,  
No. 1.CERVICAL JACKET,  
No. 2.CERVICAL JACKET,  
No. 3

LEG SPLINT.

FOR ALL DISEASES OF THE  
KNEE, OR FRACTURE.

### INSTRUCTIONS FOR MEASUREMENT, &c.

#### JACKET.

(In cases of slight deformity):—

Circumference at axilla.

" waist.

" hipe.

Length from axilla to great trochanter.

In severe angular cases circumference over apex of curve, position of same, and contour should be given; in lateral cases a description of the case.

In all cases it must be stated if for male or female.

#### CERVICAL JACKETS.

Same measurements and circumference at neck, and length from centre of neck to axilla.

Any part of the Jacket can, in the process of manufacture, be left soft.

These Splints can be fitted perfectly to the Patient if softened either by hot water or in a Heater made for the purpose. The material becomes quite hard again in two or three minutes.

#### LEG SPLINT.

Circumference at top of thigh.

" above knee.

" at knee.

" below knee.

" calf.

" ankle.

Length of splint as required.

State if for right or left leg.

Made with soft front or with hinge at back, and with foot part, if required.

When the foot part is required, also circumference at heel and instep, and length from centre of knee to ground.

If the limb is contracted, the contour should be given.

PORO-PLASTIC IN SHEETS ALWAYS IN STOCK.

**SOLE MANUFACTURER, J. T. COCKING, PLYMOUTH.**  
Wholesale Agents:—S. MAW, SON & THOMPSON, London, E.C.

# LESLIES' PLASTERS

**Leslies' Patent Pliable Tape-plasters.** Fine Calico, Holland, or Pink Cambric, in decorated Tin Boxes,  $\frac{1}{4}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$ , 1 and  $1\frac{1}{2}$  in. wide, 1s. each, 9s. per doz.; extra widths, 2 in. and 3 in., 1s. 3d. and 1s. 6d. each.

**Tapes.** Silk,  $\frac{1}{8}$  in., 1s. each, 9s. per doz.; 1 in., 2s. each, 18s. per doz.

**Leslies' Surgical Case Tape Plasters** (assorted widths), 10s. 6d.

**Leslies' Brown Holland Self-adhesive Plaster,** in 6 or 12 yard Tins, 6 in. wide, 3s. and 5s. 6d.

**Leslies' Porous Plasters** (easily removed), in 1 and 3 doz. boxes. 7s. by 5 in., or in 1 or 6 yard decorated Tins.

## LESLIES' ANTISEPTIC DRESSINGS.

**LESLIES' LINT, ABSORBENT WOOL, BANDAGES, AND ALL SURGICAL DRESSINGS.**

Write for Lists to **LESLIES, LTD.** Bond Court House, WALLBROOK, LONDON, E.C.

## DR. MARTIN'S PURE RUBBER BANDAGES.

Registered Trade Mark.

For the Radical Cure of Varicose Veins, Ulcers, and other Diseases of the Leg.



CAUTION.—Please order Genuine **Martin's Bandages**, each being stamped with Dr. Martin's signature. All others are Spurious Imitations.

Complete Price List, Trade Discount, and Dr. Martin's Pamphlet post-free.

No.	PRICES.	Feet	Inches	Each
3A.	Thin, for ankle, elbow, wrist, and forearm	6	2 $\frac{1}{2}$	3/8
3.	Thick	6	2 $\frac{1}{2}$	4/-
1B.	Thin, for leg below knee..	10 $\frac{1}{2}$	3	5/8
1A.	Thick	10 $\frac{1}{2}$	3	7/8
8.	Thin, for leg and knee ..	14	3	9/8
7.	Thick ..	14	3	9/8
9B.	Thin, for leg and thigh ..	21	3	10/8
9A.	Thick ..	21	3	13/6

Sole Agents—**KROHNE & SESEMANN, SURGICAL INSTRUMENT MAKERS, 8 DUKE ST., MANCHESTER SQUARE, LONDON, W.**



## "THE LEICESTER" PATENT WOUND & BED SORE PADS

Prepared with a pad of absorbent cotton-wool in the middle, and a self-adhesive border. Very useful for dressing wounds, ulcers, &c., and for shielding diseased surfaces from friction. Perfection for Bed Sores. Made all shapes and sizes, in boxes of 1 dozen. Can with ease be applied by patients ignorant of the science of bandaging.

An ARMY SURGEON writes:—"I think the idea is a capital one, and have no doubt but that it will be the first field dressing of the future."

Three dozen assorted (sizes inside the border:  $2 \times 2$ ,  $2 \times 3$ ,  $3 \times 3$ ,  $3 \times 4$ ,  $3 \times 5$ , and  $4 \times 4$  inches—6 of each), on Holland, 2/6; on Waterproof Sheeting, 3/-. MANUFACTURED ONLY BY

**A. DE ST. DALMAS & CO., Medical Plaster Manufacturers, LEICESTER.**

May be obtained of all Chemists and Wholesale Houses.



USED BY SURGEONS ALL OVER THE WORLD.

## "THE LEICESTER" IMPROVED ADHESIVE PLASTER

In 3-yd. rolls, 16-in. wide.  
In Handsomely Deco- containing 18 by 6 inches, to Retail 6d.  
rated Tins " 36 by 6 " " 1/-

## "The Leicester" Ribbon Plasters

On flesh colour Cambric, 6 yds. long,  $\frac{1}{4}$ -in.,  $\frac{3}{8}$ -in.,  $\frac{1}{2}$ -in.,  $\frac{3}{4}$ -in., 1-in.,  $1\frac{1}{2}$ -in. and 2-in. wide, in japanned tins.

MAY BE OBTAINED FROM ANY WHOLESALE HOUSE.

## PAYING LINES FOR CHEMISTS

### FLESH GLOVES.

Per doz.  
3d. Turco ... 2/-  
6d. " ... 2/8  
1/- " 4/6 & 5/6  
Glass-top Counter Boxes of 1 doz. 6d., 3/6; 1 doz. 1/-, 6/-  
A variety of patterns in stock.

### SMELLING-SALT BOTTLES.

200 patterns in stock. Ask for New Price List.

### FLAVOURING ESSENCES.

Per doz.  
1/oz. bats. ... 2/3  
1/oz. " ... 4/-  
Almond, Vanilla, Lemon, &c.

### SPRAY PRODUCERS.

1/- Single Ball, per doz., 8/-.  
Good Double Ball Sprays at 15/-, 21/-, 24/-, 27/-, and 33/-.

### BATHING CAPS.

6d., 4/6; 1/-, 7/6 per doz.

### SPONGE BACS.

BEST QUALITY.

No. 1 2 3 4 5 6  
4/6 5/6 6/7/- 8/6 10/0 12/-  
Per doz.

### SPONGES ON CARDS.

At per doz.

1d. 2d. 3d. 4d. 6d. 1/-  
6d. 1/- 1/6 2/- 3/- 6/-

### SPONGE NETS.

Per doz. 4/6, 8/-, 12/-

### INSECT POWDER TINS.

Per gross.  
1d. 2/3; 3d. 5/6;  
6d. 7/9; 1/-, 9/-

### LAVENDER SMELLING SALTS.

THE IMPERIAL.  
6d. retail, per doz. 4/-

### LEMON JUICE EXTRACTORS.

New shape to hold the Juice.

Per doz., 3/6.

### LIME JUICE AND GLYCERINE.

6d., 3/4; 1/-, 6/8 per doz\*

### CARDED GOODS: SOOTHERS.

Per doz.

3d. Bone & Rubber Ring ... 2/-  
6d. " " " 3/-

### COMBS.

THE "SAMPSON."  
Size 7 in.,  $7\frac{1}{4}$  in., 8 in.

Per doz. 2/- 2/6 3/-

2d. Perfumes, 1/3 per doz.

2d. Musk Lavender, 1/2 per doz.

1d. Flower Seeds, 6/- per gross.

3d. Flexible Hair Curlers,

Per card, 1/9, &c., &c.

## MARRIOTT'S PATENT

# 'THE LILY.'

## LATEST IMPROVEMENTS.

Figs. 1, 2, and 3, with Patent Unbreakable Ring and CONCAVE SCREW SHIELDS, TEAT and SHIELD SECURELY FIXED.



FIG. 1A.



FIG. 2A.



FIG. 3A.

Retail at 6d. Other Patterns supplied as usual.

**E. MARRIOTT & CO.**  
**HASTINGS**

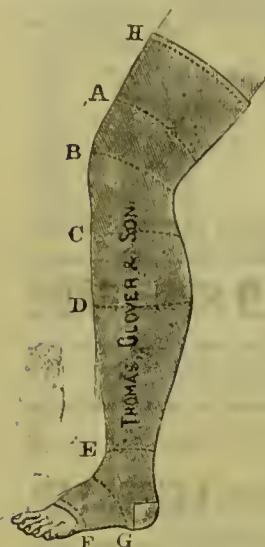
**FRANCIS NEWBERRY & SONS**  
(ESTABLISHED A.D. 1746),  
Druggists' Sundriesmen and Perfumers,

1 & 3 KING EDWARD ST., LONDON, E.C.

# VINCENT WOOD

# SURGICAL APPLIANCES

THE GRANDEST COLLECTION THAT HAS EVER BEEN SEEN.



<b>TRUSSES</b>	... ... ... ...	Single 11/6, 18/6 double, per doz.
	In Dove, Pink, or Buff Moleskin and Basil Leather.	
<b>HOSIERY</b> , thread	... ... ... ...	3/3 4/- 4/6 per pair.
" silk	... ... ... ...	5/3 6/9 9/- "
	Every part my own manufacture.	
<b>ENEMAS</b> , each in single box, complete with Pipe and Shield—		
Pure black cut sheet rubber	... ... ... ...	21/- moulded.
" grey rubber, seamless	... ... ... ...	24/-
" red Para, seamless, enamelled in red, black, or green	... ...	28/6
" ditto, as Higginson's, in cedar wood boxes	... ...	30/-
<b>SUSPENSORY BANDAGES</b> in 3 sizes, small, medium, and large		
Bags, or called as A, B, & C, and so forth...	... ... ... ...	1/9 per doz.
I weave the net, webbings, and ribbon myself for these.		
<b>LADIES' ABDOMINAL &amp; SUPPORTING BELTS</b> from		24/- "
<b>GENTLEMEN'S</b> ditto	... ... ... ...	12/- "

Chest Protectors of every kind, Expanding Braces, Corsets, Bandages of all kinds, Obstetric Binders, Eye Shades, Umbilical Belts, Bath Gloves, and every kind of Surgical Appliances.

*Statuettes, Circulars, Show Cards, Self-measurement Forms, supplied free to those stocking my Goods.*

THE LARGEST MANUFACTURER IN THE WORLD.

**VINCENT WOOD, ST. ANDREW'S HOUSE, 3 ST. ANDREW'S STREET, LONDON, E.C.**

Steam Works & Rubber Mills—Russell Street, Nottingham: Main Street, Carlton.

Engineering Works—Railway Arches, Herne Hill, S.E. Established 1840.

Telegraphic & Cable Addresses:  
"ACME LONDON."  
"ELASTIO NOTTINGHAM."

## SURGICAL LINTS, BANDAGES,

BLEACHED, GREY AND ABSORBENT COTTONS.

SURGEONS' TOWS.

PROTECTIVE LINT

TELEGRAMS:

"LINT LIVERPOOL."



WORKS:

MARK ST. MILLS, LIVERPOOL.

**THE LIVERPOOL LINT CO.**

**SOLPORT BROS.**

68, Shaftesbury Street,  
New North Road,

Telegrams—  
"SOLPORT, LONDON."

**LONDON, N.**

Manufacturers for Wholesale and Export of

**BATH & FLESH GLOVES, STRAPS, PADS, &c.**

CHEST PROTECTORS, CORN and BUNION PLASTERS, &c.

**LOOFAHS & LOOFAH GOODS.**

*Buyers and Shippers should write for our full Illustrated Price List.*

Telegraphic Address—  
"MENTHOL LONDON."

TO

JULY 28TH, 1894.

# SHIRLEY BROTHERS,

105 &amp; 107 WHITECROSS ST., E.C.

*MR. WIDEAWAKE,**Chemist,**BUSYTOWN.*

Dear Sir,

Knowing you are always anxious to buy at the best market, and thus be able to meet the competition now existing, we beg to draw your attention to various lines we are offering, the special features of same being that they are low in price, goods of every-day demand, and well got up, as a line well and tastily got up is half sold, and you naturally do not want any bad stock. Trusting to be favoured with your orders, which shall have personal and prompt attention, we are,

Yours faithfully,

SHIRLEY BROTHERS.

**MENTHOL CONES.**

1d. Vase & Pedestal	7/6 gross
1d. Bottle	7/- "
2d. Pedestal	14/- "
3d. "	2/- doz.
4d. "	2/9 "
6d. Acorn	3/3 "
6d. Flat	3/3 "
6d. Reversible	3/6 "
1/- Flat	7/- "
1/- Acorn	6/- "
1/- Reversible	6/- "
6d. Celluloid Flat	4/- "
6d. Celluloid Conical	4/- "
&c., &c.	

**SMELLING SALTS, &c.**

No. 349. Our "Monster," assorted colours, wide mouth. Empty, 3/6 doz.; full, 4/- doz.

No. 352. The "Prince" of Lavender Salts, having a stopper facsimile of Prince of Wales' feathers. Assorted colours.

Filled, 4/- doz.; empty, 3/- doz.

No. 336. Large Watches. 3/6 doz.

Job Parcels of Bottles, oddments—

Smelling Bottles, 20/- worth for 18/-

China Bottles, 20/- worth for 17/- Sprays, 20/- worth for 16/-

Everfresh Salts, 2/2 per lb.

**SOOTHING TEATS.**

1d. Cord	7/- gross
1d. Bone Ring	8/6 "
2d. Glass Union	14/- "
2d. Bone Mount (The "Wonder")	10/- "
3d. Rubber	2/- doz.
4d. "	2/9 "
3d. Woollen Ball	1/6 "
No. 18. Bone Ring Mount, Seamless Teat	1/4 "
No. 18A. Do., larger Teat	1/8 "
No. 18B. Do.	1/10 "
No. 15C. Corrugated Ring Mount	2/9 "
No. 20. 6d. do.	3/9 "
&c., &c.	

All fitted with Seamless Teats except 1d.

**FEEDING BOTTLES.**

These we can do well, having bought the business of the Babies' Feeding Bottle Co., "The Dot," "My Own," "The Palace," &c., &c.

Screw Glass, well fitted, 7-inch Rubber, Glass Union	3/- doz., 33/6 gross.
Do., Seamless Teat	3/- doz.
Do., in box, with Brush	4/- "
Do., 2 Brushes	4/6 "
Do., Superior Fittings	6/- "
Boat Feeders, Screw Stopper	5/- "
Do., in box, being fitted with large Seamless Teat	6/- "

**ETIENNE FRÈRES' PERFUMERY.**

## CARDED LINES.

1d. Tubes	7/6 gross
1d. Bottles	8/- "
2d. Ribbed	14/- "
3d. "	1/10 doz.
4d. Tubes, with Sprinklers	2/6 "
3d. Oval	2/- "
1d. Lavender and Musk	8/- gross
2d. "	1/2 doz.
3d. "	2/- "
1d. Eau de Cologne	8/- gross
3d. May Blossom (with portrait of Duke and Duchess of York)	2/- "
3d. Political (Hawarden and Primrose)	2/- "

Beautifully got up. Bound to sell.

6d. Capped	8/- doz.
6d. Sprinklers	2-oz. 13/- "
6d. Lubins	4-oz. 24/- "
1/- box	Extra powerful, 11/-, 18/-, and 34/- "
4d. Tubes, Green and Amber, with Sprinklers, Lavender Water and Cologne	2/3 "
6d. Hollands-shape Bottle, 3/6 doz.	Do., 1/- 6/- "

In bulk, original Tins, 9/- lb. Bottles,  $\frac{1}{4}$ ,  $\frac{1}{2}$ , and 1 lb., 9/6 lb.

**OCKENDEN'S TOOTH SOAP**, on China Stand, with Celluloid Cover, 4/- doz. Cheapest ever brought out. Registered.

**EUCALYPTUS DISINFECTING POWDER.** Quite new, in Tins, perforated Lids, 3/6 doz. Also sold in bulk.

**AI EUCALYPTUS DISINFECTING SHELLS,** to hang up. Sell splendidly. 7/- gross. Do., 3d. line, 1/10 doz.

**ETIENNE'S FLAVOURING ESSENCES.** 1d. line, 7/6 gross; 3d., 1/9 doz.;  $\frac{1}{2}$ -oz. Ovals, Gold and Red Labels, 3/- doz.; 6d.  $\frac{1}{2}$ -oz. Cannons, 3/3 doz. Buyer's name on free for gross lots of 6d.

**PACKED GOODS**, all kinds, such as Seidlitz Powders, Glycerine, Castor Oil, &c., &c.

**P.S.—When ordering these through a wholesale house, please specify distinctly SHIRLEY'S.**

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## JOH. DIEDR. BIEBER, HAMBURG:

Tinctures, Ethers, Liniments, and Spirituous Extracts, &c., prepared with purest Spirit, and from best quality of raw Drugs, in accordance with requirements of British and other Pharmacopæcias.

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IODINE RESUBLIMED

All Preparations of BROMINE

CASTOR OIL

RESINA JALAPÆ

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SANTONIN (from Turkestan factory).

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Tannic, Gallic, and Pyrogallie Acid.

GLYCERINE, ANILINE DYES, GELATINE, ULTRAMARINE, CITRIC ACID, HEAVY CHEMICALS.

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GUN STREET, BRUSHFIELD STREET, BISHOPSGATE, LONDON.

NOTICE.—See the Shops recently fitted in our Modern Style, and send for Estimates for Best Work at Lowest Prices.

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Bowden's Drug Stores, Edgware Road.  
May's Drug Stores, London Wall.  
Bruce's Drug Stores, Ealing.  
Goss & Co.'s Drug Stores, Oxford Street.  
Mr. Lewis's Drug Stores, Kilburn.

Messrs. Robson & Son's Drug Stores, Scarborough.  
Lewes' Drug Stores, 64 Baker Street.  
Mr. Bateman, Finchley Road.  
Messrs. Thomas Brothers, Cheltenham.  
Mr. Chabot, Tunbridge Wells.  
Mr. Francis, Carmarthen.

Mr. Pettinger, Hampstead.  
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South Wales Drug Company, Cardiff.  
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"A thing of beauty is a joy for ever." So is a well-fitted Shop.

ESTABLISHED HALF A CENTURY.

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PRICE LIST FREE ON APPLICATION.

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A Perfect Substitute for Gas.  
More Portable, more Economical than Gas.  
Invaluable where there is no Gas, or where Gas cannot be used.  
**THE MOST PERFECT BUNSEN BURNERS.**  
No Wick. Simple. Indestructible. Absolutely Safe.

For Methyl Spirit. No. 15½.

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One stroke of the Piston sets the Syphon going instantaneously.  
A VERITABLE BOON WHEREVER LIQUIDS ARE HANDLED.  
Made of Tinned Iron, Copper, Tinned, Glass, Ebonite, &c., and in any size.

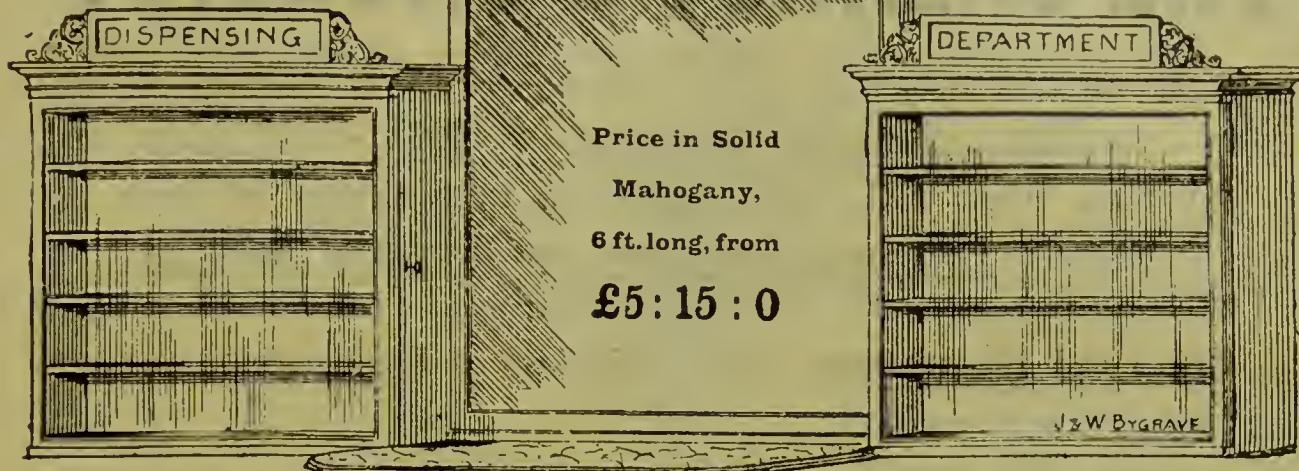


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For Benzoline. No. 16.

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Write for Full Particulars  
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**DISPENSING SCREEN**



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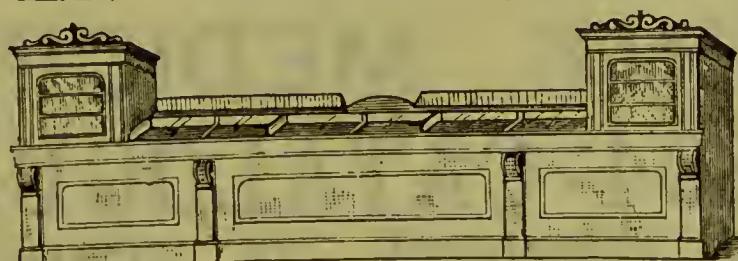
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Inspection invited.

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Estimated for.  
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<b>SECOND-HAND FIXTURES OCCASIONALLY ON HAND.</b>		" STEAD, St. Ann's-on-Sea.
Complete set of Second-hand Chemist's Fixtures (now in Wales), the Fixtures only £30.		" JONES, Llangollen.
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All kinds of Glass Work in Name Plates, Shelves, Outside Letter Slips, &c.		THE CHEMIST CO., Wm. Salop.

DENTISTS' CASES, &c., &c.

Complete set of Second-hand Chemist's Fixtures (now in Wales), the Fixtures only £30.

Cheap Bent Glass Case from 21s.

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# "THE CHEMIST & DRUGGIST"

APRIL 7th, 1894.

"MESSRS. WILLIAM EDWARDS & SON, of 157 Queen Victoria Street, E.C., have issued the 1894 Edition of their Catalogue of Proprietary Medicines and Druggists' Sundries. They have considerably extended the latter section, both in Descriptions and Illustrations, while their List of Proprietaries is as complete as it can be."

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**Enemas & Hydrostatic Douches.**

No. 571a.—Enema Douche, for hanging or standing up, consisting of two-pint Bronzed Canister, fitted with 6-ft. best Black Tubing, Vulcanite Stopcock, Rectum and Vaginal Tubes to plug on, in a card box (as Fig. 571) 3/- each.

No. 571.—Ditto, the same, but with 3-pint Canister, 3/2 each.

„ 573.—Ditto, the same, but with 5 pint Canister, 3/7 „

„ 574.—Ditto, the same, but with 8-pint Canister, 4/3 „

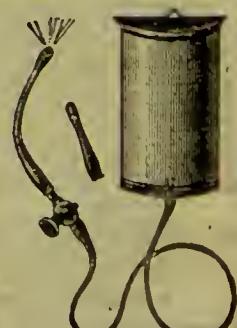
„ 571b.—Ditto, 3-pint Bronze Canister, fitted with 6-ft. Grey Tubing, Vulcanite Stopcock, and Glass Vagina Pipe (a Cheap Line), 2/3 each.

No. 568.—Ditto, Family Syringe, all Rubber, 1 quart, with 6 Vulcanite Jets, 8/9 each.

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Subject to usual Discounts.

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**MINERAL**

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**Just issued:— NEW SUPPLEMENTARY LIST OF PHOTOGRAPHIC SUNDRIES.**

Agencies and Commissions undertaken upon reasonable terms.

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The "GEM" Camera, WITH CHEMICALS complete, to retail at 5/6. It is made of polished mahogany, with adjustable bellows and side screws, folding tailboard, brass-mounted  $\frac{1}{4}$  plate French lens, double dark slide and focussing-screen, each 4/5; not less than three 4/1, net 3/6.

The "WINSLEY" Camera, made of polished mahogany, with folding tailboard, good brass-mounted lens, mahogany double dark slide, folding bellows, side screw-adjustment, and focussing-screen. Compact, portable, and reliable.  $\frac{1}{4}$ -plate, Each 8/9, net 7/5 $\frac{3}{4}$ .

Ditto, with superior lens,  $\frac{1}{4}$ -plate, each 13/-, net 11/1 $\frac{1}{2}$ .

Ditto, with superior lens,  $\frac{1}{2}$ -plate, each 17/6, net 14/11 $\frac{1}{2}$ .

The "OXFORD" Camera, folding tailboard, superior brass-mounted lens, with leather cap and sliding mounts, well finished flexible double dark slide, bellows body, side screw-adjustment, and focussing-screen. It is well made throughout with well-seasoned mahogany, and adapted for portrait or landscape work.  $\frac{1}{4}$ -plate, each 17/6, net 14/11 $\frac{1}{2}$ ;  $\frac{1}{2}$ -plate, each 35/-, net 29/11.

The "BEDFORD" Camera, substantially made of well-seasoned polished mahogany, conical bellows, swing back; the front slides into body, and the baseboard folds over, shutting in the lens; focussing-screen and tripod-stand. It closes into a very small compass.  $\frac{1}{4}$ -plate, each 26/-, net 22/2 $\frac{3}{4}$ ;  $\frac{1}{2}$ -plate 52/-, net 44/5 $\frac{1}{2}$ .

The "AMATEUR" complete Half-guinea Outfit—a really practical, well-made set—packed in portable polished-pine case, each 8/9, net 7/5 $\frac{3}{4}$ .

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With superior lens,  $\frac{1}{4}$ -plate ..... each 21/-, net 18/-.

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A large assortment of all kinds of Photographic Sundries kept in stock. Trial Orders solicited.

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CARBOLIC POWDER, about 1-lb. Tins, per doz. 4/3, net 3/7 $\frac{1}{2}$ . CARBOLIC POWDER, about 2-lb. Tins, per doz. 8/6, net 7/3 $\frac{1}{2}$ . SANITARY FLUID, 8 oz. oval bottles, per doz. 4/3, net 3/7 $\frac{1}{2}$ .

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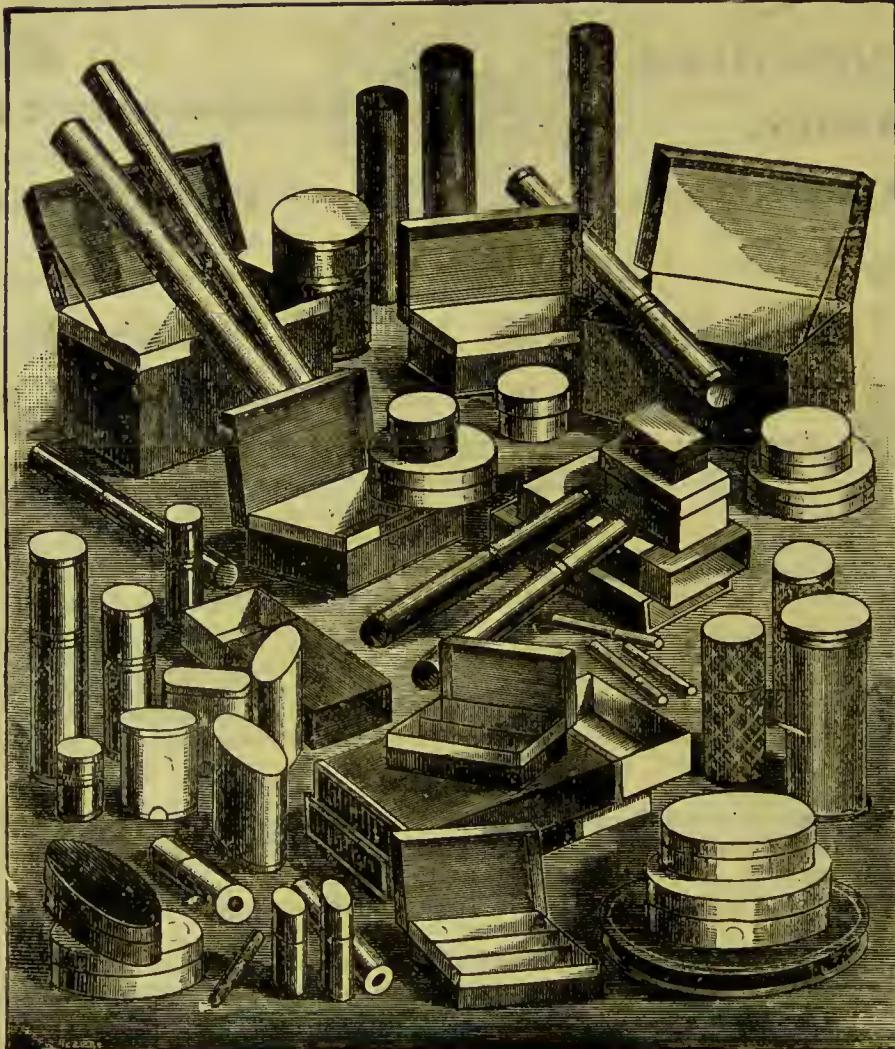
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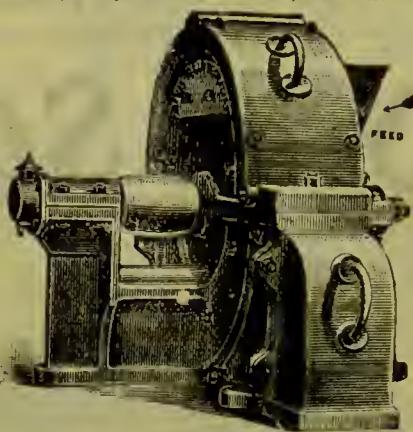
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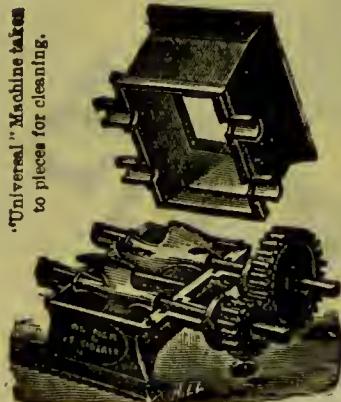
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The only Machine  
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Can be fixed to any  
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A single pull of the lever  
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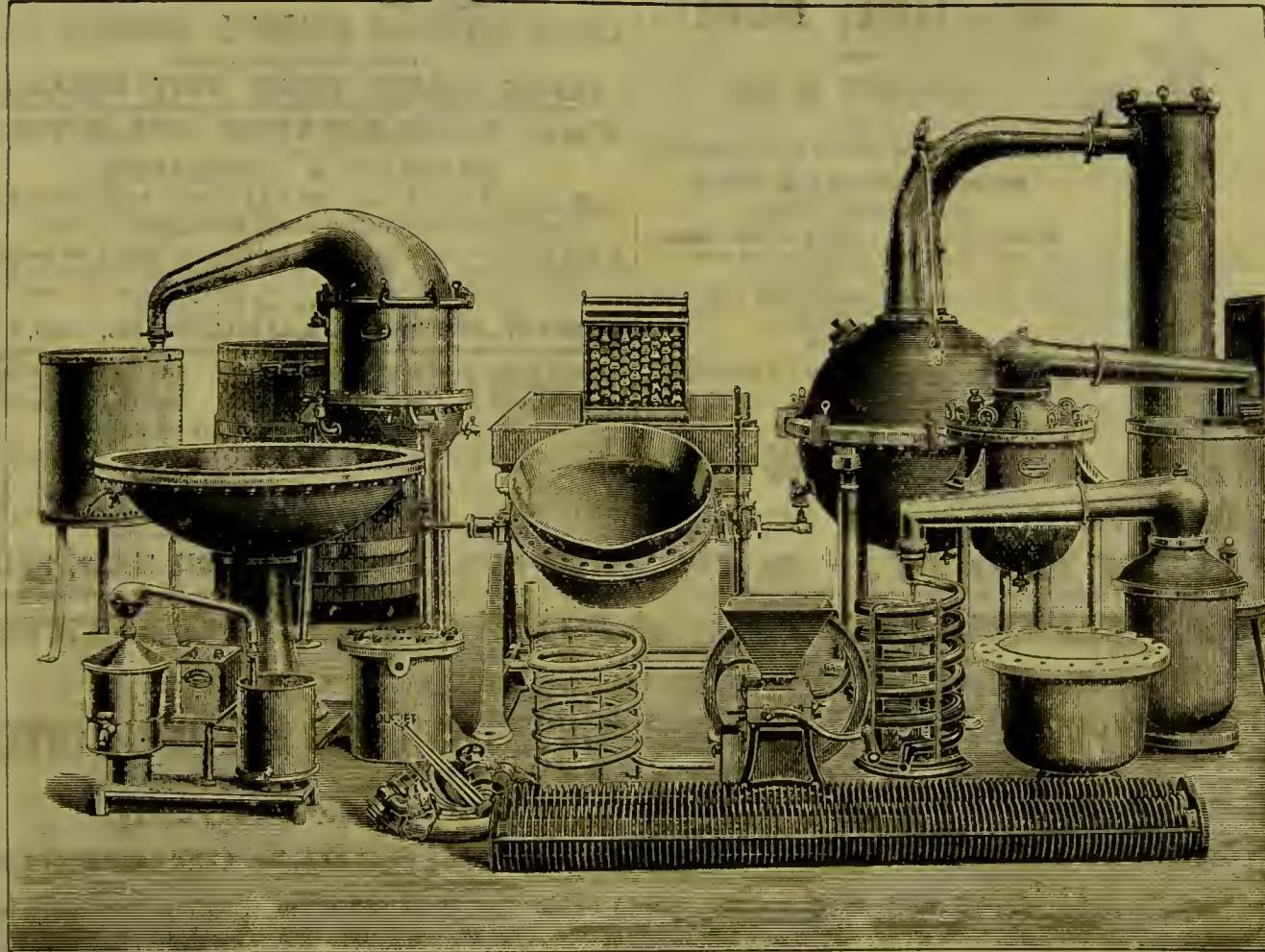
Patentee—C. MELIN, 37 Crutched Friars, LONDON, E.C.

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VACUUM PANS  
VACUUM PUMPS  
ACETIC ACID STILLS  
ALCOHOL STILLS  
ALMOND OIL STILLS

AMMONIA STILLS  
AQ. DESTIL APPARATUS  
CLOVE OIL STILLS  
CARAWAY OIL STILLS  
LAVENDER STILLS  
MINT STILLS

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"As you have now nearly completed the refitting of our Laboratory, we have pleasure in expressing our satisfaction with the manner in which the work has been executed.

"The plant with which you have supplied us is well made, and, as far as we can judge after working it for only a short time, answers the purpose for which it was designed admirably."

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PUMP  
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OIL, TIME, MONEY.  
THOUSANDS IN USE.**

**FIG. 2.** We have bought the Stock of these Pumps from  
**MESSRS. PONTIFEX & WOOD,  
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Who have given up this part of their business,  
and it is our intention to continue same.

We hold a Good Stock, and can give  
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Write for full particulars and prices of The "Farrington"  
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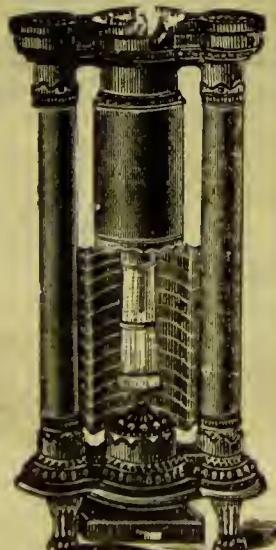
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(CLARK'S PATENT).

A Necessary for all Invalids. A Comfort to Everybody.

**NO FLUE REQUIRED. FREE FROM SMELL OR SMOKE.**



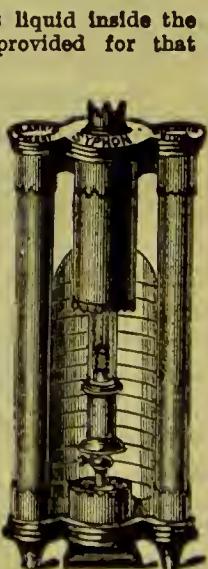
All injurious vapours are reduced to harmless liquid inside the  
Stove, and passed out at foot into a tray provided for that  
purpose.

For use in Hospitals, Sick Chambers, Bedrooms,  
Halls, Conservatories, Schools, Shops, &c.

They give a Pure, Equable, and  
Agreeable Heat, which can be  
graduated and sustained at the  
will of the user.

Specially suitable for pa-  
tients suffering from Bron-  
chial affections, as a moist  
atmosphere is obtainable  
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For Terms, Particulars, and Prices, apply  
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**S. CLARK & CO., Patentees and Makers, Syphon Works, Park Street, ISLINGTON, LONDON, E.**

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Last Year's Output:

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**LANCER HELMET BRAND PUTZ' POMADE.**

**FOR CLEANING PLATE!**

**BRADLEY & BOURDAS'S  
ALBATUM or WHITE ROUGE,**  
For CLEANING GOLD, SILVER, and PLATED GOODS.

A trial is only needed to prove its superiority over other Plate Powders in use. Chemists will find it to their advantage to recommend this Powder, as when it is once tried it is always continued to be used.

Sold in Boxes at 1s. and 2s.; Tins, 6s.

6 PONT ST., BELGRAVE SQ., & 48 BELGRAVE RD., LONDON, S.W.

**FINEST CRUSHED LINSEED.**

GUARANTEED ABSOLUTELY PURE.

NO OIL EXTRACTED, NO BUFFAM ADDED.

£15 per ton, 16/6 per cwt., 8/6 per 56-lb. bag, carriage paid; or put up in tins for Retailers. Liberal Discounts to Hospitals and Wholesale Buyers.

Samples Free. Feeding Linseed a Specialty.

SIZER BROS., Seed Crushers, TOWER OIL MILLS, HULL.

GARDNER'S  
PATENT

# "RAPID" SIFTER & MIXER

GEAR-DRIVEN SIFTER and MIXER.

CATALOGUES ON APPLICATION TO  
**WM. GARDNER & SONS,**

FOR  
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OR  
POWER.

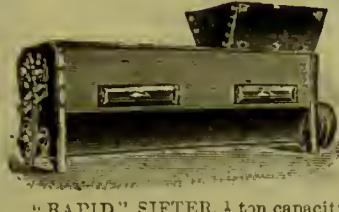


OPEN-BOTTOM "RAPID" SIFTER.

HUNDREDS  
AT WORK.

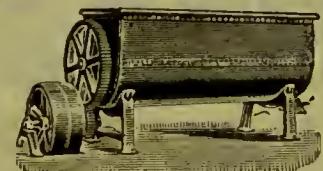
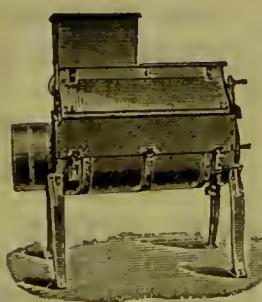


Worm-Bottom "RAPID" SIFTER.

"RAPID" SIFTER,  $\frac{1}{2}$  ton capacity.

CABINET PATTERN.

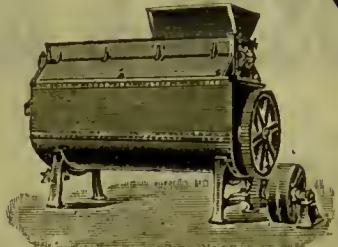
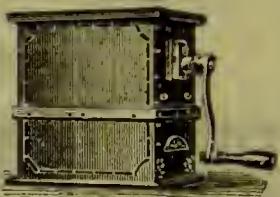
WM. GARDNER MAKER, GLOUCESTER.

"RAPID" MIXER,  $\frac{1}{2}$ -ton capacity.

SIFTER and MIXER, for Power.



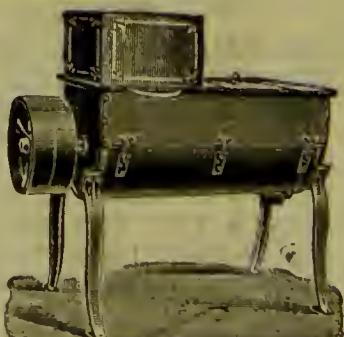
Hopper-Bottom "RAPID" SIFTER.

SIFTER & MIXER,  $\frac{1}{2}$ -ton capacity.

Gardner's "INDISPENSABLE."



"RAPID" SIFTER, on Iron Stand.



"RAPID" MIXER, Hopper Top.

ENGINEERS,  
BRISTOL,  
ROAD,

**GLOUCESTER.**  
Telegrams and  
Cables :  
"GARDNER  
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For BREAKING LUMPS  
and SIFTING and MIXING  
every class of DRY POWDERED  
GOODS simultaneously.

**R. HOVENDEN & SONS,** BERNERS ST., W.,  
AND  
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OVER 1,600  
ILLUSTRATIONS,

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WHOLESALE DEALERS IN AND MANUFACTURERS OF

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TOOTH, NAIL, and HAIR BRUSHES, COMBS, CUTLERY,

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SWEET LAVENDER PERFUME

MARRIS'S ALMOND TABLETS

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SHAVER

THORNTON'S WALNUT HAIR

HERRING'S MAGNETIC BRUSHES

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BERGEMANN'S SHAVING SOAP

BULLY'S TOILET VINEGAR

CANDE'S LAIT ANTEPHELIQUE

CHAPMAN'S TOILET VINEGAR

DORIN'S ROUGES, BLANCS, and all other preparations

FELIX'S EAU DES FEES

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IMPERIAL HAIR REGENERATOR

LEICHNER'S GREASE PAINTS, & all other preparations

LOZE'S FILTER PAPER

MARIE ANTOINETTE EGG JULEP POWDER

MECHI'S RAZOR STROPS and Paste

NUDA VERITAS HAIR RESTORER

PARFUMERIE MILUN "1001"

PICARD FRERES' POUDRE D'AMOUR

PICARD FRERES' VALINEROSE

PINAUD'S PERFUMERY, and all other preparations

PRAY'S (Dr. J. PARKER) MANICURE GOODS

ROBARE'S AUREOLINE

ROBERT FRERES' PERFUMERY

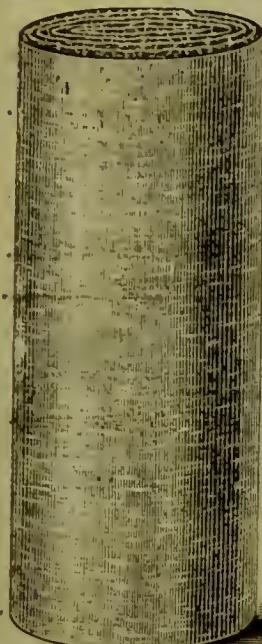
ROYAL WINDSOR HAIR RESTORER

SCHWARZLOSE'S HAIR DYE

SKINHEAL VOOGD'S RAZORS, SCISSORS, and all other articles

## NOVELTIES.

# KINGZETT'S "SULPHUGATORS" (PATENTED).



These consist of rolls or bandages coated with Sulphur. When a light is applied to either end of the "Sulphugators," they immediately take fire and burn with a long blue tongue of flame until all the Sulphur is consumed.

They may be burned to the best advantage in the small perforated metal cages which are specially constructed for the purpose, and one of which is enclosed in each box of "Sulphugators." Any suitable vessel, such as an old tin box or saucepan, or frying-pan, or small flower-pot, however, will suffice.

As an extra precaution against fire, the vessel in which the "Sulphugators" are burnt may be stood in another shallow vessel of water, or a little water may be even placed in the vessel in which the "Sulphugator" is burned. In the last-named case, however, there is a small loss of fumigating power, as some of the Sulphur will remain unconsumed in the water.

**KINGZETT'S "SULPHUGATORS"** burn very much more quickly than Solid Sulphur Candles, on account of the freedom with which the air necessary for combustion gains access to the burning Sulphur; and they have other great advantages, as will be obvious from the consideration that they can be obtained in small sizes suitable for fumigating

**Bird Cages, Rabbit Hutches, Kennels, Fowl Houses, Wardrobes, Drawers, &c.**

They effectually destroy all insect life and disease germs.

They are put up in 1s. Boxes, containing respectively 4 "Sulphugators" (retailing at 3d. each), and 12 smaller ones (retailing at 1d. each).

N.B.—Each of the larger "Sulphugators" yields about 63 litres of Sulphurous Gas, and suffices for the Disinfection of about 225 cubic feet space. Each of the smaller "Sulphugators" yields about 16 litres of Sulphurous Gas, and suffices for the Disinfection of about 56 cubic feet space. The cubic capacity of any space is ascertained by multiplying the height by the width and the length.

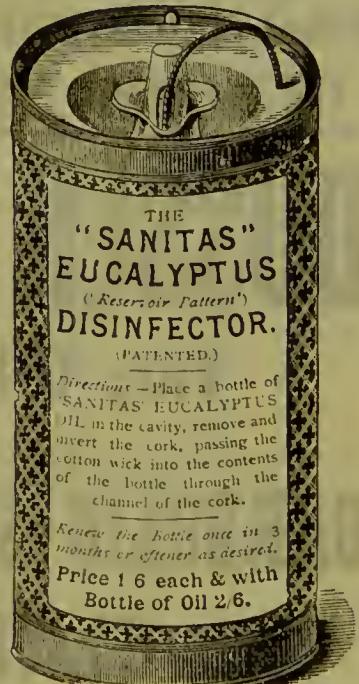
## RESERVOIR PATTERN

# "SANITAS EUCALYPTUS DISINFECTOR" (PATENTED).

This appliance is constructed on the same principle as the ordinary "Sanitas Eucalyptus Disinfector," but it is much larger and is provided with a Reservoir of the "Sanitas Eucalyptus Oil" in the shape of a Bottle of that liquid, which is placed in the cavity of the absorbent diffuser. The latter is fed with the Oil by means of a wick which is inserted in the diffuser, and should be placed in the contents of the bottle, passing through the channel of the reversible cork with which the latter is specially provided.

In practice it will be found that although the absorbent diffuser quickly soaks up the contents of the first bottle, it will steadily continue to give off the vapour of the Oil for a long time afterwards, and the contents of succeeding bottles will last much longer. A new bottle of "Sanitas Eucalyptus Oil" should be placed in the cavity once in every two or three months, or oftener if desired.

The price of the Appliance, complete with Bottle of "Sanitas Eucalyptus Oil," is 2/6, or without the latter 1/6.



## THE "ANTI-DIPHTHERITE."

We have undertaken the Sole Agency for the supply of this patented Appliance to the Trade and Public Institutions. It may be briefly described as affording a means of inhaling purified and sterilised air available for use by all who come into contact with Infection, and particularly cases of Diphtheria, Sore Throat, Bronchitis, and Scarlet Fever. The "Anti-Diphtherite" is an appliance in the nature of a Respirator, in which the air is inhaled from the back of the wearer, and is drawn through a medium soaked with "Sanitas Disinfecting Fluid." Full particulars will be sent on Application. Price 2/- each.

**THE SANITAS COMPANY, LIMITED,**  
**BETHNAL GREEN, LONDON, E.**

C. T. KINGZETT, F.I.C., F.C.S., Managing Director.

PATENTPATENT

# SMITH'S "PERFECT" POWDER WEED KILLER.

*Manufactured by arrangement with the Patentee.*

A Scientific Triumph. Nothing like it ever seen before. Immediately Soluble in Cold Water. One small Tin makes 25 gallons for use. Leakage impossible. Each Tin a Measure. All Tins free. No Return Empties Sold in handsome enamelled Tins.  
**RETAIL PRICES**—1 Tin, 1/9 per Tin; 4 Tins, 1/6 per Tin; 8 Tins, 1/5 per Tin; 12 to 20 Tins, 1 4 per Tin.

**THE WEED KILLER OF THE FUTURE. GREATEST PROFIT TO AGENTS.***No other preparation has a chance against it. Agents should stock at once Liberal Trade Terms on application.*

**Sole Proprietors — MARK SMITH (Limited), LOUTH, LINCOLNSHIRE.**  
(Mark Smith, Louth, and the Horticultural and Agricultural Chemical Co., Glasgow. Amalgamated.)

TRADE MARK.



TRADE MARK



## GOVERNMENT DISINFECTANTS.

### PINK CARBOLIC POWDER,

15% Strength, as required  
by the Vestries.

IN ENAMELLED TINS, PERFORATED LIDS.

1-lb., 6d. size ...	... 42/- per gross.
2-lb., 1/- "	... 65/- "

2d. size ...	9/- per gross.	1-lb. ...	36/- per gross.
4d. " ...	16/- "	2-lb. ...	54/- "

**CHLORIDE OF LIME.** In Damp-proof, Smell-proof, not Corroding Metal-covered Boxes.

2d. size ... 9/6 per gross. | 4d. size ... 23/6 per gross. | 6d. size ... 44/6 per gross. | 1/- size ... 54/- per gross.

**EUCALYPTUS FLUID.** **EUCALYPTUS SANITARY TABLETS** (To Hang up on any Nail.)

PRICES ON APPLICATION TO THE MANUFACTURERS—

**THE ELEPHANT DISINFECTANT CO., 34A PENROSE STREET, WALWORTH.**

# DUSSEK BROS. & COMPANY,

Tar, Oil, and Turpentine Distillers.

MANUFACTURERS OF

**CARBOLIC SANITARY FLUID & POWDERS,**  
**CARBOLIC ACIDS,**

**TAR AND ROSIN SPIRIT,**

Soluble Sheep Dip, Greases, Petroleum Jelly, Creosote, Dubbin, Brunswick and Berlin Blacks, Pitch (all kinds), Venice Turpentine, Raw and Boiled Linseed Oils, Engine Oil, &c.

**DUSSEK'S WHARF, VERNEY ROAD, S.E.**

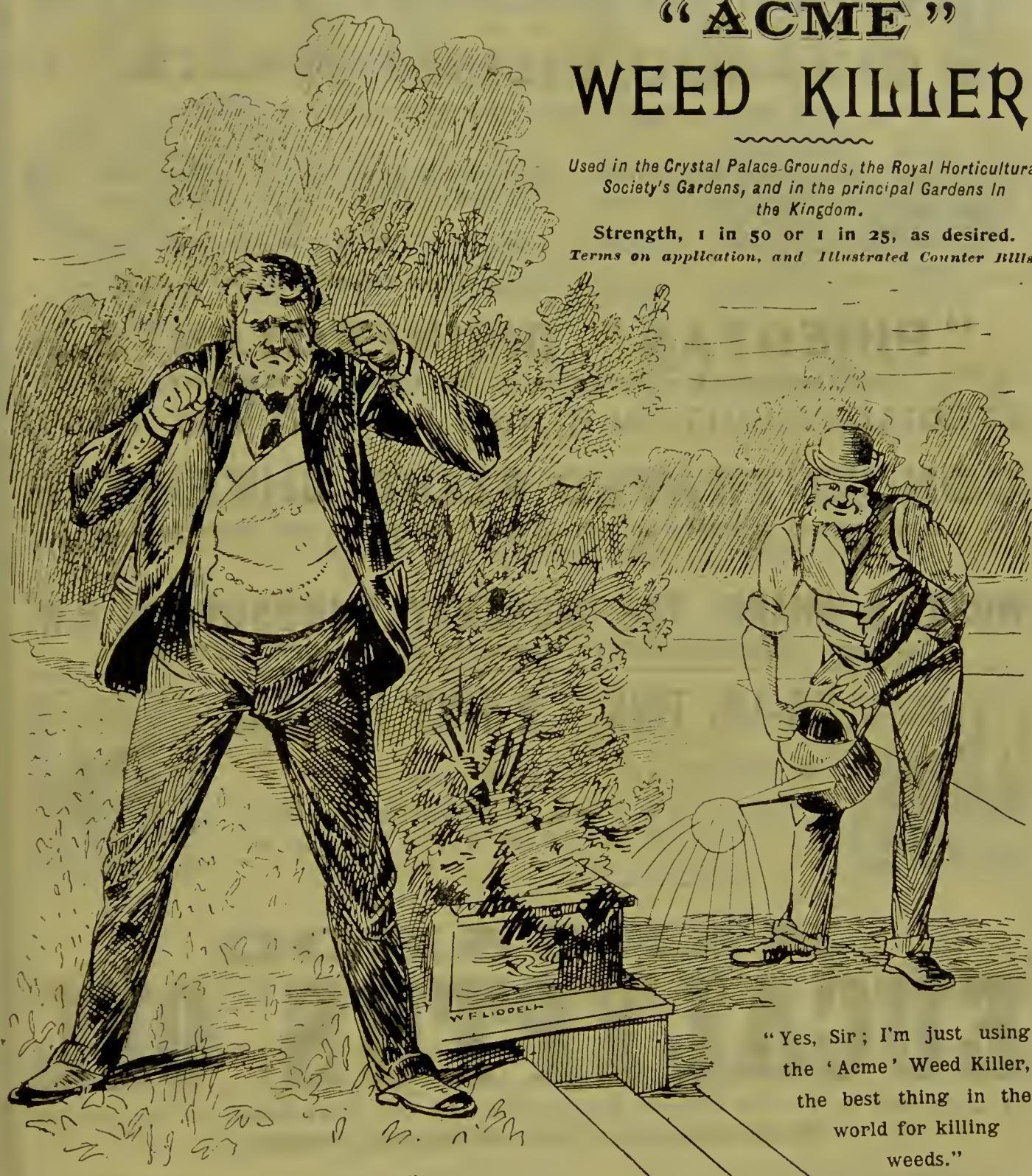
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THE CELEBRATED  
**"ACME"**  
 WEED KILLER.

Used in the Crystal Palace Grounds, the Royal Horticultural Society's Gardens, and in the principal Gardens in the Kingdom.

Strength, 1 in 50 or 1 in 25, as desired.  
 Terms on application, and Illustrated Counter Bills.



"Yes, Sir; I'm just using the 'Acme' Weed Killer, the best thing in the world for killing weeds."

"Weeds, weeds, weeds everywhere."  
 "I wonder if that new gardener can suggest anything?"

THE ACME CHEMICAL CO., LTD.  
 TONBRIDGE, KENT, and CARLTON STREET, BOLTON, LANCS.

# WANDSWORTH CHEMICAL WORKS, LTD.

## CARBOLIC DISINFECTANTS.



CARBOLIC POWDER: Pink, White, or Grey

Any strength. Packets, Tins, and in Bulk.

CARBOLIC ACIDS: CRUDE, 95/97% PALE, and 97.99% WATER WHITE.

SANITARY FLUID OR CREOSOL: Bottles, Drums, and Casks.



Silver Medal, Edinburgh, 1890. Highest Award.

IMMEDIATELY SOLUBLE IN COLD WATER. Gold Medal, Jamaica, 1891. Highest Award.

## "PINEOTAS" DISINFECTANTS.

"PINEOTAS" POWDER, FLUIDS, AND OIL.

SPECIALLY SUITABLE FOR INDIA & THE EAST.

## CONCENTRATED FLUID SHEEP DIP

CARBOLIC AND "PINEOTAS" SOAPS, PETROLEUM JELLY, CHLORIDE OF LIME, &c.

## WORKS & WHARF: THE CAUSEWAY, WANDSWORTH, S.W.

Agency—116 PRINCESS STREET, MANCHESTER.

AGENTS WANTED.



### 25-LB. TINS. 2 TINS IN CASE.

THE CHEMIST AND DRUGGIST says:—

"The oil is free from low-boiling terpenes, has a specific gravity of 0.9075, and has a delightful odour."



## KANGAROO EUCALYPTUS OIL

Is admitted to be the Purest Eucalyptus Oil yet introduced to the public.  
To be obtained of your Wholesale Druggist.



SOLE CONSIGNEES—  
LAUGHLAND, MACKAY & BAKER, 50 Lime St., LONDON.

COLONIAL ADDRESS—

A. M. BICKFORD & SONS, Wholesale Druggists.  
46 Currie Street, ADELAIDE.



# JEYES' FLUID

THE NON-POISONOUS DISINFECTANT.

## A TRUE GERMICIDE & DEODORISER,

Somewhat less refined than **CREOLIN**, the virtues of which are

RECOGNISED BY MEDICAL AUTHORITIES ALL OVER THE WORLD.

## Jeyes' Fluid and its Preparations

SHOULD BE RECOMMENDED BY THE CHEMIST EVERYWHERE WHO DESIRES TO SUPPLY ONLY RELIABLE ARTICLES.

### PRICE LIST (ABBREVIATED).

#### Jeyes' Fluid.

Retail Prices	Trade Prices
0 6 .. Sixpenny Bottles (bottles included) ..	4 0 per doz.
1 0 .. Shilling ..	7 0 ..
3 6 .. 1-gall. Iron Drums (drums included) ..	2 6 each
6 0 .. 1-gall. Drums ..	4 6 ..
11 6 .. 2-gall. ..	8 6 ..
28 6 .. 5-gall. ..	20 0 ..
55 0 .. 10-gall. ..	38 6 ..
Per Gall. 6 0 .. 20 & 40 gallon Casks (casks free, not returnable)	3 6 per gall.
1 1 1/2 .. UNIVERSAL PERFECT PURIFIER (in bottles) ..	8 6 per doz.

#### Sanitary Powder.

1 0 each Canisters, in boxes of 1, 2, or 3 doz. ..	7 0 per doz.
0 6 .. (Also in Casks and Bags.) ..	4 0 ..

#### Disinfectant (Brown) Soap or Household (White) Soap.

No. 1 QUALITY.—In 1-lb. Bars, papered.

In 1-cwt. Boxes ..	31 0 per cwt.
.. (Also in Small Packages.) ..	..

No. 2 QUALITY.

In 1-cwt. Boxes ..	25 0 per cwt.
.. (Also in Small Packages.) ..	..

In 3-lb. Bars, 2s. per cwt. less.

#### Triple Milled Toilet Soaps.

Elegant Tablets for the Toilet, of finest quality, containing the Antiseptic Properties of "Jeyes' Fluid."

Retail Prices	Trade Prices
Per box	per box
1 6 .. "Perfect Purifier," 6 Tablets ..	12 0 per doz.
1 1/2 .. "Coal Tar," 6 Tablets ..	12 0 ..
2 0 .. "Old Brown Windsor," 12 square Tablets ..	18 0 ..
0 6 .. "Special Line," 3 Tablets ..	4 6 ..
2 6 .. "Toilet" (Scented), 6 Tablets ..	21 0 ..
2 6 .. "Sublime Toilet" (Unscented), 6 Tablets ..	21 0 ..
2 0 .. "Boudoin Tablets" (Perfumed), 3 Tablets ..	16 0 ..
5 0 .. "Transparent Complexion," 12 Tablets ..	36 0 ..
1 0 .. "Transparent Soap," 3 Tablets ..	8 0 ..

N.B.—The first three varieties supplied also in 7-lb. deal Boxes. Customers' Names stamped on Tablets if sufficient quantity ordered.

#### Toilet Preparations.

Each	Trade Prices
1 0 Shaving Stick, in Cardboard Box ..	8 0 per doz.
6 0 .. Tooth Powder, in 1-lb. Bottles ..	48 0 ..
1 0 .. Metal Box ..	7 0 ..
2 0 .. Dentifrice Water, in Bottles, with Sprinkler ..	15 0 ..
1 0 .. Lano-creolin, 5% Antiseptic, in Tubes ..	9 0 ..
3 0 .. " " Large Tubes ..	24 0 ..
6 0 .. " " 1-lb. Jars ..	48 0 ..
1 6 .. Antiseptic Ointment, 10% Antiseptic, in China Pot ..	12 0 ..
0 9 .. " 20% Antiseptic, in Metal Box ..	6 0 ..
3 6 .. Spray Diffuser, in Box complete ..	30 0 ..

## Sheep Dip, Wood Preserver, and other Agricultural Preparations.

TERMS, 2½ PER CENT. DISCOUNT AT ONE MONTH.

All Goods delivered Free in London. For the Country, Free at any London Railway Station or Wharf.

FULL PRICE LIST ON APPLICATION.

ALSO

### A NEW MEDICAL PAMPHLET,

With Recent Opinions of English Medical Men, free on request.

**JEYES' SANITARY COMPOUNDS CO., Ltd.**

43 CANNON STREET, LONDON, E.C.

**ESTD. 1788.**

12 Bride Lane, London, April 18, 1894.

To my Business Friends,

I thank you warmly for the high esteem in which I constantly hear that my firm is held, and it shall be my earnest endeavour to merit a continuance of this regard.

Last year I had to bring actions against a few Chemists and others for acts of gross substitution. I give below an example.

Such conduct is no credit to our Profession, and is a loss as well to the neighbouring Chemists as myself. I am bound to stop it. If you are aware of any person acting in this manner may I ask you to warn him? or if information be given to me I will hold it absolutely confidential, and take independent steps to prevent the fraud.

Yours faithfully,

THOMAS KEATING.

### **KEATING v. WRIGHT (NEWCASTLE).**

MR. JUSTICE NORTH, on the 14th February this year, in giving Judgment, said: "There was no difference in principle between verbal representations and representations in writing for the purpose of passing off goods of one person as those of another. . . . He therefore granted an Injunction to restrain the Defendant from selling or offering for sale, as Keating's Insect Powder, powder not made by the Plaintiff, and ordered the Defendant to pay the costs of the action."

**THE COSTS** paid by Defendant were £161 : 12 : 8.  
**THE COSTS** ,,, ,,, in the next case,  
 viz.:—**KEATING v. RUSSELL**, were £99 : 2 : 8.

## THE "CYGNET" BRAND

TRADE

MARK.



## EUCALYPTUS OIL.

"Extraordinarily Rich in Eucalyptol."—*Vide Report by R. H. DAVIES, F.I.C., F.C.S.*  
 "Delightfully Fragrant."—*Vide LANCET.*

The LANCET says, July 4, 1891:—

"We have not examined a purer specimen of Eucalyptus Oil than this received from Messrs. J. W. DRYSDALE & Co., 8 Creechurh Lane, E.C. It gives off a delightfully fragrant smell, especially when a few drops are placed in a bowl of water. Evidence in favour of its purity is furnished by our analytical results, which are as follows:—The oil commences to boil at from 170° C. to 175° C., and the specific gravity at 60° F. is 0·924. On evaporation no trace of residue is obtained. It would be difficult, we imagine, to secure an oil that would be better fitted for surgical and general antiseptic purposes than this particularly fine Australian product."

## HELBING'S PHARMACOLOGICAL RECORD.—VIII.

"We think it advisable to briefly recapitulate here the results of our investigation regarded from a purely commercial point of view. The following table thus shows that the Eucalyptus Oils sold by Messrs. J. W. DRYSDALE & Co. are very rich in eucalyptol and of an excellent quality—being, in fact better than any of the well-reputed brands we have examined.

	Percentage of Eucalyptol.	Remarks.
1. "Cygnet" brand Eucalyptus Oil (1st Sample) ..	50·1 ..	An excellent oil, free from any obnoxious constituents.
2. "Cygnet" brand Eucalyptus Oil (2nd Sample) ..	43·94 ..	Contains more higher terpenes, but of equal excellence.
3. "Cygnet" brand Redistilled Eucalyptus Oil ..	57·95 ..	{ Comparatively inert lower and higher fractions have been removed, increasing the percentage of eucalyptol."

Supplied only to the Wholesale Trade in original cases by the Sole Consignees:—

J. W. DRYSDALE &amp; CO., 8 Creechurh Lane, LONDON, E.C.

# "YORKSHIRE" BIRDLIME.

Excels all others in tenacity.  
The only Birdlime in the market which is suitable in all particulars for the manufacture of

## STICKY FLY PAPERS.

SOLE MAKERS—

WILLIAM BLEASDALE & CO.  
YORK,

Who will be pleased to forward samples and prices on application.



CAMPHORTAR

8/- per Gross

CAMPHORTAR

A combination of Camphor, Eucalyptus, and Coal Tar. A Powerful Disinfectant, Deodorizer, Insect Destroyer, and Air Purifier.

# CAMPHORTAR

SOLD BY THE PRINCIPAL DRUG AND SUNDAY HOUSES.

# HEBDEN'S CHLORID OF LIME

IN  
AIRTIGHT, ODOURLESS, WATERPROOF PACKETS  
Retains the Chlorine and keeps the Powder dry longer than any other packet.

4 oz., 8/- gross; 8 oz., 16/- gross; 16 oz., 30/- gross.  
SOLD BY THE PRINCIPAL DRUG AND SUNDAY HOUSES.

MANUFACTURED ONLY BY

W. C. HEBDEN, Albany Works, HALIFAX, YORKSHIRE.

A VALUABLE AGENCY!!!  
**BIRD'S BOTANIC ESSENCE**  
(REGISTERED TRADE MARK).

**THE CERTAIN CURE**

For Curbs, Splints, Spavins, Strains in the Back Sinews, Windgalls, Capped Hocks, Sore Throats, &c., in Horses.

*As used in the Stables of the Royal Families, Nobility, the leading Trainers, and largest Horse Owners throughout the World for over 60 years.*

Obtains a large sale (and affords a handsome profit) wherever introduced. May be procured of all Wholesale Houses, or direct from Sole Proprietors—



**BIRD & STOREY**, 42 Castle Street East, Oxford Street, **LONDON, W.**

**TRY IT! WHAT?**

**WILEY'S CHEMICAL ESSENCE**  
 FOR  
**LAMENESS IN HORSES.**

If you will, you can sell it, and it will bring you credit. You can have attractive Handbills free.

Sole Maker—**F. E. ROOKLEDGE, EASINGWOLD.**  
 ORDER FROM YOUR WHOLESALE HOUSE.

**DAY, SON & HEWITT,**  
 LARGEST MAKERS IN THE WORLD OF  
**HORSE & CATTLE MEDICINES.**



THE GREATEST  
 ANIMAL  
 RESTORATIVE  
 OF THE AGE.



For Fret, Colic, or Gripes in Horses, Hoven or Blown Cattle and Sheep, and General Debility in Stock. Of exceptional value for Colds, Chills, Scour, Diarrhoea, &c., &c.

Price 1s. 9d. per Bottle; 2os. per dozen.

**THE CHEMICAL EXTRACT.**

For Kicks, Cuts, Bruises, Sore Withers, Swellings, Strains of Ligaments and Tendons, Saddle Galls, &c. It rapidly relieves Straining and Paining after Calving and Lambing, and is the remedy for Swollen Udders and Sore Teats.

Price 2s. 6d., 3s. 6d., and 7s. per bot.

**THE GASEODYNE.**

Used as Landannum for parturition in Mares, Cows, and Ewes, when there is great pain exhibited with feverish symptoms. Highly beneficial for Inflammatory Colic or Enteritis, and for severe forms of Diarrhoea.

Price 3s. 6d. per Large Bottle.

**THE RED DRENCH.**

For Colds, Indigestion, Costiveness, Yellows, Surfeits, Loss of Cud, Pleurisy, Hidebound, Red Water, &c. For cleansing and checking feverish symptoms in Cows and Ewes after parturition.

Price (Cows) 13s. per doz.; (Ewes) 3s. 6d. per doz.

THE "ORIGINAL"  
**STOCK-BREEDER'S MEDICINE CHESTS,**  
 For Horses, Cattle, and Sheep. Prices, £1 18s. 9d. and £2 16s. 6d.

THE "ORIGINAL"  
**HORSE-KEEPER'S MEDICINE CHESTS,**  
 For all ailments in Horses. Prices, £1 10s. and £2 17s. 6d.

**ROYAL ANIMAL MEDICINE MANUFACTORY, 22 DORSET ST., LONDON, W.**

Liberal Discounts to Foreign Buyers.

Trade Terms and full particulars on application.

Attractive Show-cards and Handbills sent with each order.

# BLACK

# DAY'S

# DRINK

1/- per bottle, or 19/- per dozen, is the price of  
**DAY'S BLACK DRINK.**  
 Only genuine from  
**DAY & SONS, CREWE.**



*What's good for  
BODILY PAIN?*

**DAY'S OIL OF THE NIGHT**

The People's Embrocative Balm for Sprains, Muscular Weakness, Rheumatism, Lumbago, Cramp, Sore Throat from Cold, Sciatica, &c., and all Aches, Pains, and Soreness.

Send for "Day's Oil of the Night" terms framed to prevent CUTTING.

Chemists can have a Single Bottle direct. Price 1/1<sup>d</sup> and 2/9 per Bottle.

**DAY & SONS, CREWE, CHESHIRE.**

DAY'S OIL of the NIGHT.

You can rely on it.

And you don't enjoy the  
privilege of selling it  
for nothing.

The Retailer has his  
profit.



## HEBBELER'S "RAT BISCUITS"

*Modern Rat and Mouse Poison,*

Acts like a charm. It attracts the Mice and Rats and destroys them wholesale, while there is absolutely no danger attending its use, as it contains No Poison for Human Beings or Domestic Animals.

## HEBBELER'S RAT & MOUSE POISON

is, in this respect, quite distinct from other Rat and Mice Poisons, which, as is well known, have caused innumerable losses of human life.

Retail Price ... ... ... 6d. per Box.

Wholesale, 1 dozen, 4/-; 1 gross, 42/-, carriage paid to any part of the United Kingdom. Cash with order.

OF ALL WHOLESALE HOUSES, OR  
SOLE PROPRIETOR—

K. HEBBELER, 149 Houndsditch, LONDON, E.

## STEINER'S VERMIN PASTE

FOR DESTROYING

RATS, COCKROACHES ETC.

REGISTERED.



IN [TRY IT]

3d., 6d., & 1/- Glass Jars; 2, 6 & 5/- Tins.

Warranted to Keep for Export.

## STEINER'S VERMIN KILLER

FOR [NEVER FAILS]

DESTROYING  
MICE, ETC.

1d., 3d., 6d., and 1s. Packets.



## STEINER'S INSECT POWDER

PRIME DALMATIAN.

ENGLISH GROUND.

The most energetic Insecticide. Kills Bugs, Fleas, and all offensive Insects. Quite harmless to Domestic Animals.

1d., 3d., 6d., & 1s. Tins (& Bellows).

Also in 7-lb. and 66-lb. Tins, and in Kegs of 1 cwt. and upwards.



E. Steiner & Co. are Sole Proprietors and Manufacturers of  
**JAMES'S PHOSPHOR PASTE**

FOR DESTROYING

BEETLES, RATS, MICE, ETC.

Sold in 1d., 3d., 6d., and 1s. Glass Jars.



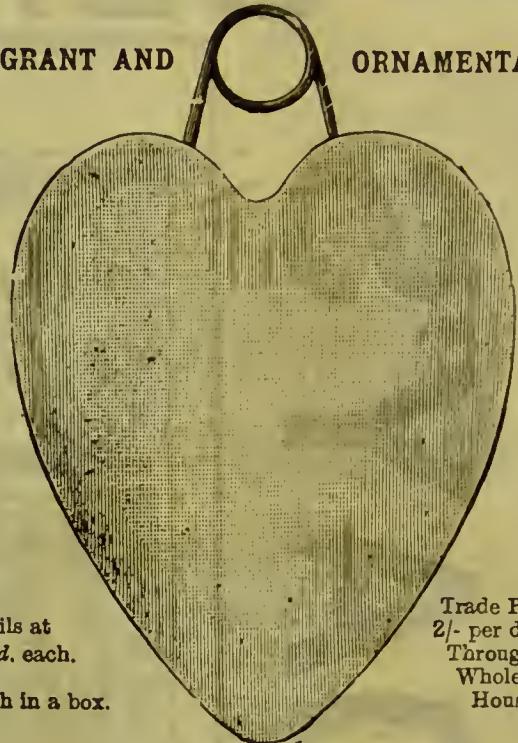
May be obtained through all the Wholesale Houses, or direct from

THE WORKS, LIMEHOUSE, LONDON, ENGLAND.

## THE CITY OF LONDON SANITARY HEART

FRAGRANT AND

ORNAMENTAL.



Trade Price  
2/- per doz.  
Through all  
Wholesale  
Houses.

Retails at  
3d. each.

Each in a box.

AND

## THE PENNY

## SANITARY PENDANT

Disinfectants  
Antiseptics  
Air Purifiers

Deodorisers

Vitalisers  
Insect Destroyer



KEEP FLIES FROM ROOMS  
AND MOTHS FROM CLOTHES.

SAFEGUARDS AGAINST EPIDEMICS  
AND ALL INFECTIOUS DISEASES.

Trade Price,

7/6 per gross.

SOLE PROPRIETORS AND MANUFACTURERS—

**J. BEEDZLER & CO., Manufacturing Chemists,**  
20 NORTON FOLGATE, E.C. Established 1700.

# NON-POISONOUS! NON-CAUSTIC! NON-CORROSIVE!

Facsimile of the One Shilling Bottle,  
which will make 10 Gallons of Strong,  
Reliable, Non-poisonous Disinfectant.



"The Antiseptic power of IZAL appears to be considerably greater than that of Carbolic Acid, whilst it is practically Non-poisonous. It mixes well with water, has an agreeable smell, and is entitled to rank among the foremost Disinfectant and Antiseptic preparations."—*The Lancet*.

# IZAL

## NON-POISONOUS DISINFECTANT

Stronger than Pure Carbolic Acid, and entirely free from the dangers attending the use of Carbolic Disinfectants. Prevents infection in cases of Cholera, Small-pox, Diphtheria, Influenza, Scarlet, Typhus, and Typhoid Fevers, and practically covers the whole field of Infectious Diseases.

*RETAIL IN BOTTLES,*

**1/-, 2/6 & 4/6  
GALLON TINS, 10/-**

**IZAL TOILET SOAP.** 1s. 6d. per box. Composed of choicest materials. Relieves prickly heat and irritation, and will relieve Eczema.

**IZAL MEDICAL SOAP.** 2s. per box. Much esteemed by medical men. A powerful agent in the treatment of Skin diseases.

**IZAL HOUSEHOLD AND LAUNDRY SOAP.** A powerful Disinfecting Soap for scouring floors of hospitals and sick rooms. 4d. per lb.

**IZAL CREAM.** Especially useful for rubbing upon the skin of fever patients during the period of desquamation. In tubes, 1s.

**IZAL OINTMENT.** Excellent for burns, scalds, chapped hands, and chilblains. 1s. 1½d. per pot.

**IZAL TOOTH POWDER.** A most useful preparation for the teeth and gums. 1s. per box.

**IZAL LOZENGES.** Admirable for sore throat, and useful as a preventive against infection. 1s. 1½d. per box.

*Sole Manufacturers:-*

**NEWTON, CHAMBERS & CO., LTD.  
THORNCLIFFE, SHEFFIELD.**

LONDON OFFICES-

19 Great George Street, Westminster; and Thorncliffe House, 381 Gray's Inn Road, W.C.

Reports on IZAL Disinfectant by the highest Medical and Sanitary Experts, with Papers giving Uses and Applications, sent post free.

**IZAL PREPARATIONS ARE STOCKED BY  
ALL WHOLESALE & EXPORT HOUSES.**

CONTRACTORS TO HER MAJESTY'S GOVERNMENT.

FLETCHER'S  
**SHEEP DIPPING APPARATUS**

WAS AWARDED

**"FIRST PRIZE"**

At the recent trials in connection with the Royal Agricultural Society's Show at Cambridge. It consists of

**A PERFECT PORTABLE SWIM BATH,**

Fitted with Mud-screen, Drainer, Wheels, &c., and is

**HIGHLY COMMENDED BY COMPETENT CRITICS.**

SEND FOR PRICE AND FULL PARTICULARS.

**FLETCHER'S DIPS.**

USED WITH COLD WATER.

- (1.) **NON-POISONOUS FLUID.**—Highly concentrated. Mixes with hard water as well as soft.
- (2.) **POWDER DIP (Poisonous)**—Manufactured by a new and improved process. Finest colour and quality.
- (3.) **YELLOW PASTE DIP (Poisonous).**—10 lbs. sufficient for 100 Sheep. Requires no boiling.

LARGE CONSUMERS LIBERALLY TREATED WITH. SEND FOR SAMPLES.

**DISINFECTANTS.**

All kinds of Fluids and Powders.

**FLETCHER BROS. & CO., GRIMSBY, ENGLAND.**

EVIDENCE OF VALUE  
AND  
TESTIMONIALS  
ON  
APPLICATION.

EVIDENCE OF VALUE  
AND  
TESTIMONIALS  
ON  
APPLICATION.

# ODAMS' Disinfectants

FLUID & POWDER

MANUFACTURED BY

**ODAMS' MANURE AND CHEMICAL COMPANY, LIMITED**

(ESTABLISHED HALF A CENTURY)

Manufacturers of Fertilizers by Special



Appointment to Her Majesty the Queen.

BY ROYAL WARRANT

BY ROYAL WARRANT.



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CHAIRMAN—CHARLES DORMAN, Lawrie Park, Sydenham, Kent.

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# ODAMS' Sheep Dips

FLUID & POWDER

Chief Offices—116 FENCHURCH STREET, LONDON.

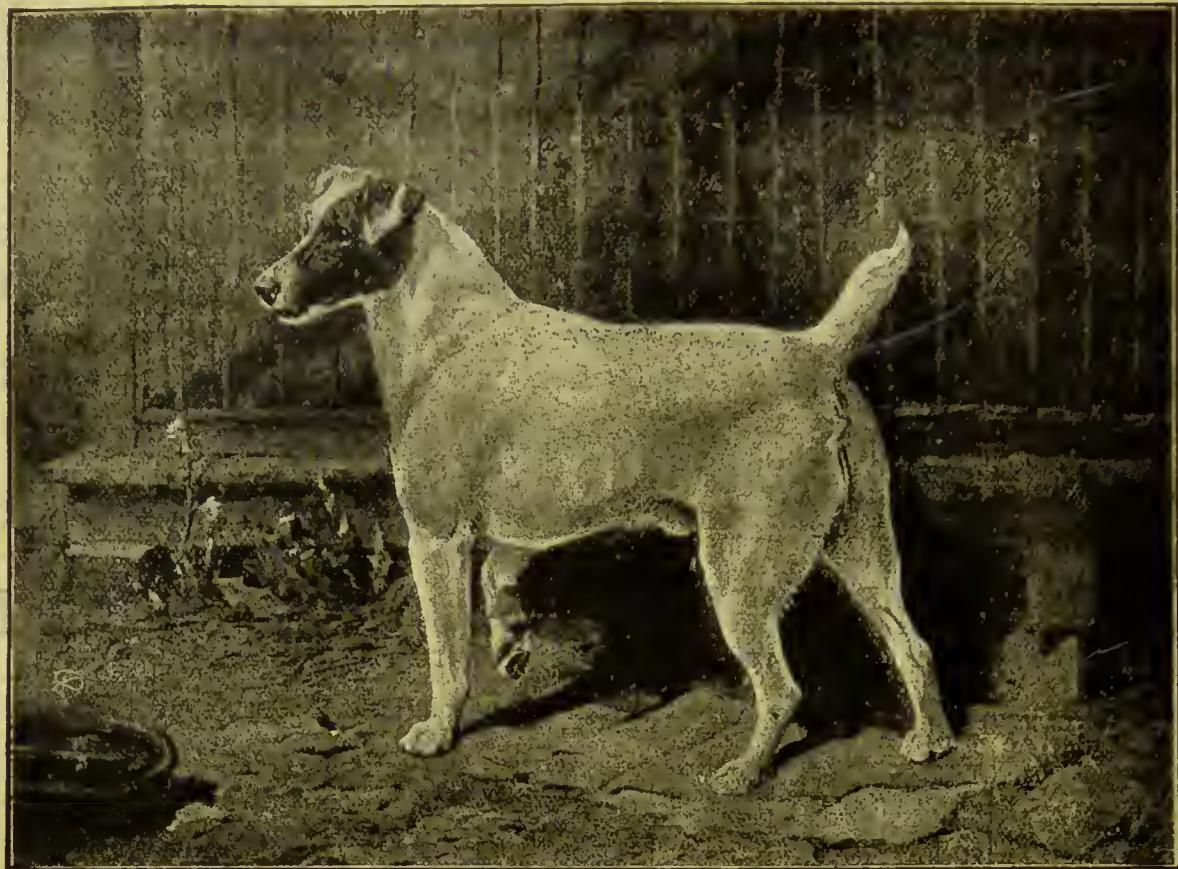
Manufactory—Odams' Wharf, Victoria Dock, E.

Branch Offices—County Chambers, Queen Street, Exeter.

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NOTE.—For Prices and Agencies in Unrepresented Districts at Home and Abroad, write to the Secretary.



**"STIPENDIARY,"**  
RECIPIENT OF THE  
**SCOTTISH, ANTWERP, AND GERMAN**  
**FOX TERRIER CLUBS'**  
**PRESENTATION MEDALS**  
AS THE  
**CRACK SIRE OF THE DAY.**

**UNSOLOITED AND VALUABLE TESTIMONY.**

ACTON FOX TERRIER KENNELS,

THE LODGE, EAST ACTON, LONDON, W.,

5th May, 1894.

To SPRATT'S PATENT LIMITED,

My brother Fanciers often ask me how I put such condition on my dogs. I answer, "Spratt's Patent Dog Cakes, and let exercise do the rest."

I enclose you a photo of "STIPENDIARY," the King of Terriers, whom I feed entirely on your Biscuits, and when I tell you that he has sired upwards of £20,000 worth of Terriers you may understand that he is quite the

**"FATHER OF HIS PEOPLE."**

He has won three times in succession the annual Stud Dog Competition, promoted by the Fox Terrier Club, and was twice winner of the London Fox Terrier Stud Dog Prize.

S. J. STEPHENS.

**FOR TRADE TERMS OF**

**SPRATT'S PATENT FOODS AND MEDICINES,**

**ADDRESS—**

**SPRATT'S PATENT LIMITED, BERMONDSEY, LONDON,**  
OR YOUR WHOLESALE HOUSE.



COUNTESS OF DERWENTWATER.

Weight 59 lbs.

Age 13 Weeks.

EARL MAYO.

Weight 70 lbs.

"Young Bute"—ex "Isabella."

*Bred by Herbert Bowley, of Cockermouth.*

PHOTOGRAPH TAKEN JUNE, 1893.

*Copy of Letter from Owner of Dogs since above Photograph was taken.*

TO SPRATT'S PATENT LIMITED.

29, MAIN STREET, COCKERMOUTH, January 29th, 1894.

DEAR SIRS,—I beg to enclose cheque. I may say that I have used your Dog Foods for very many years, and that they answer my purpose better than any others that I have given a trial. I send you a photograph of two St. Bernard Puppies, which you will see are quite healthy and an extraordinary weight for their age. These two puppies were taken from their mother when three weeks old, and brought up on your Pepsinated Puppy Meal ; and, as age advanced, on your Puppy Biscuits ; and then on your Fibrine Cakes and Bone Meal, only adding very occasionally a slight change of food. The puppies are now ten months old, and are of extraordinary size and height, straight, and always perfectly healthy. The dog Earl Mayo, as you will see from last week's "Stock-keeper," is the largest and biggest-boned on record for ten months, his height being  $34\frac{1}{2}$  inches, and weight nearly 190 lbs. The two puppies took Seven Prizes between them at the late Liverpool Show, including the London Club Silver Medals.—Yours truly, HERBERT BOWLEY.

Agencies in all important Continental Cities. Paris Depot : 14, Rue des Mathurins.

FACTORIES ALSO AT BERLIN, ST. PETERSBURGH, AND NEW YORK, AS UNDER:—

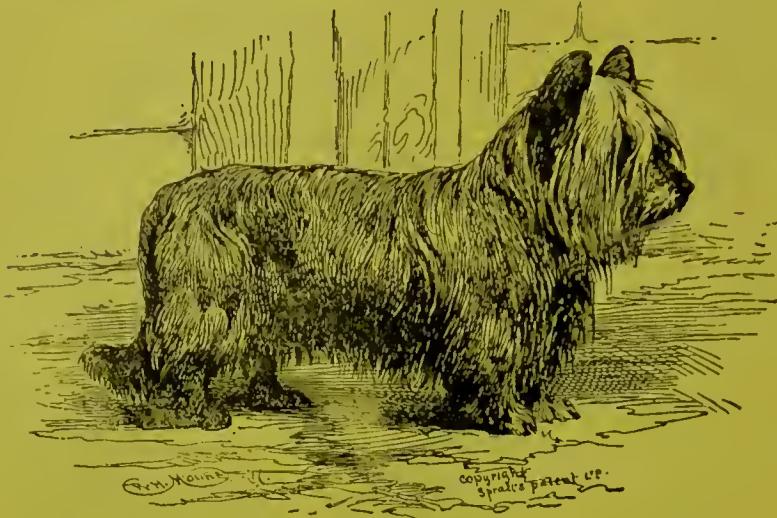
Spratt's Patent Germany Limited, 28, Usedom Strasse, Berlin.

Russian Spratt's Patent Limited, 151, Obvodny Canal, St. Petersburg.

Spratt's Patent America Limited, 239—245, East 56th Street, New York.

**SPRATT'S PATENT LIMITED, Bermondsey, LONDON, S.E.**

# For Small Breeds and Toys.



## "Improved Pet" DOG CAKES

Contain sufficient Meat and other ingredients, forming a Complete Food.

Retailed in 7-lb., 14-lb., and  $\frac{1}{4}$ -cwt. Tins or Boxes.

## Wheat Meal Dog Cakes.

AN ALTERNATE DIET, CONTAINING NO MEAT.

Retailed in 7-lb., 14-lb., and  $\frac{1}{4}$ -cwt. Tins or Boxes.

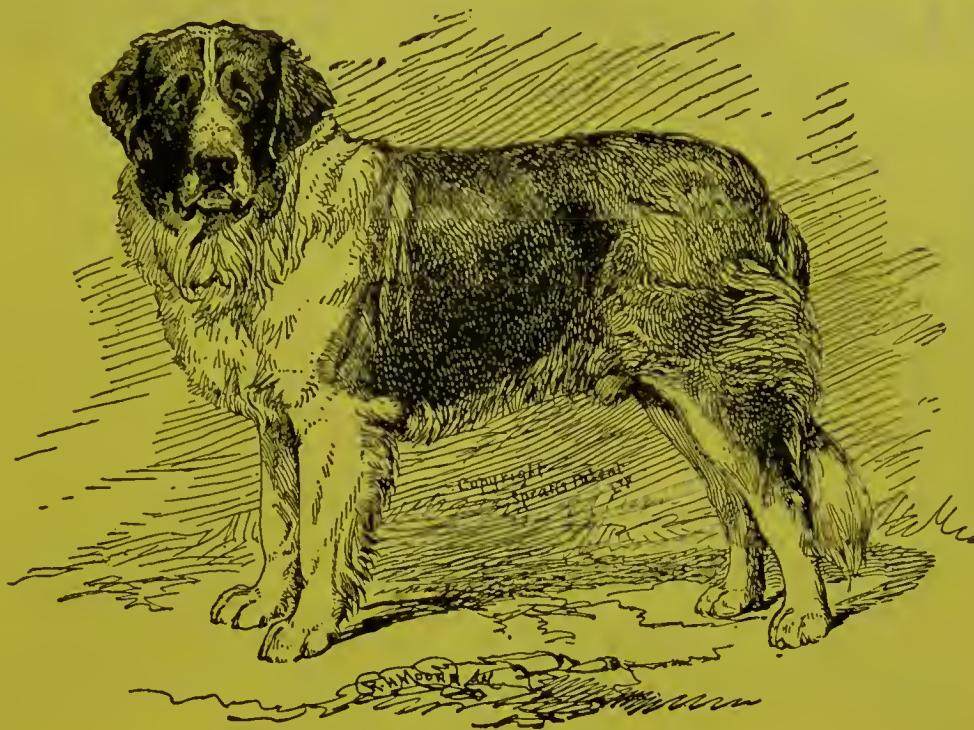
## SMALL COD LIVER OIL DOG CAKES.

Retailed in 7-lb., 14-lb., and  $\frac{1}{4}$ -cwt. Tins or Boxes.

"THE DOG FROM PUPPYHOOD TO AGE," by Dr. GORDON STABLES,  
A Brochure for Gratis Distribution.

PAMPHLETS ON DOG DISEASES, POULTRY, PIGEON, RABBIT, OR CANARY REARING.

# For St. BERNARDS.



# SPRATT'S PATENT

"EXTRA PERCENTAGE"

# Cod Liver Oil DOG CAKES

ESPECIALLY VALUABLE FOR SHY FEEDERS.

"Extra Percentage" Cod Liver Oil Cakes Retailed at, per cwt. case, 33/-; per  $\frac{1}{2}$ -cwt. case, 17/-; per  $\frac{1}{4}$ -cwt. case, 9/-;  
per 14 lb. tin or box. 4/9; per 7 lb. tin or box, 2/5.

.....

TRADE TERMS OF  
Spratt's Patent Limited, Bermondsey, London.  
OR YOUR WHOLESALE HOUSE.

# Spratt's Patent Limited Special Lines for Chemists.

**Alterative Cooling Powders.** Specially valuable for "heat of the blood," as in Surfeit, Blotch, Mange, Ear Canker, etc.

1/- per Box, Large Box 5/-.

**Cough Pills.** For Common Colds, Asthma, Husk, Sore Throat, &c.

1/- per Box, Large Box 5/-.

**Cure for Canker of the Ear.** A safe and certain cure for this troublesome complaint in Dogs or other Animals. 1/- & 5/- per Bottle.

" **Chronic Skin Disease in Dogs.** In 1/- and 2/6 Boxes.

" **Distemper in Dogs (Powders).** In 1/6 and 2/6 Boxes.

" **Jaundice or Yellows.** 1/- per Box, Large Box 5/-.

" **Mange in Dogs.** A non-poisonous fluid. It also destroys Lice, Ticks, and Fleas in Dogs and other Animals and cures Mange in Horses, Cattle and Pigs. 1/- per Bottle. 2/6 per Quart Jar, 4/- per Half Gallon, or 7/6 per Gallon Jar.

" **Rheumatism, Lumbago, and Chest Founder or Kennel Lameness.** 1/- per Box. Large Box 5/-.

" **Worms in Dogs.** 1/- per Box. Large Box 5/-.

**Diarrhoea and Dysentery Cure.** Many causes produce Violent Purging in Dogs, such as Indigestion, Swallowing Irritant Substances, Intestinal Worms, &c., and it is often present in Distemper. It is in all cases necessary to check it, which giving this mixture will do. 1/6 per Bottle.

**Eczema Lotion.** 1/6 per Bottle. N.B.—Many cases of Eczema are mistaken for Mange. The latter is contagious the former not.

**Liniment for Sprains, Rheumatism, &c.** 1/- and 5/- per Bottle.

**Locurium (Patent).** A wonderful healing vegetable Oil, for the Cure of Cuts, Bites, Bruises and Wounds of all kinds in Horses, Dogs and other Animals. In 2/- and in 6d. Bottles.

**Locurium Oil (Patent) for Human Use.** Heals rapidly Fresh or Old Wounds, Cuts, Bruises and Burns. In Bottles, Price 2/3 and 7½d. each, including Stamp.

**Pills for Chorea, or St. Vitus' Dance.** 1/- per Box.

" **Distemper in Dogs.** 2/6 per Box.

" **Worms in Dogs.** 1/- per Box, Large Box 5/-. These we prepare to meet cases in adult dogs where there is a difficulty in giving Powders.

**Purging Pills for Dogs.** 1/- per Box, Large Box 5/-. [giving Powders.]

**Stimulant for the Growth of Hair.** 1/- per Bottle.

**Tasteless Aperient Biscuits for Dogs.** 2/- per Box.

**Tonic Condition Pills.** For Debility and preparing Dogs for Exhibition. 1/- per Box, Large Box 5/-.

**Vegetable Vermifuge for Puppies.** 1/- per Box.

Specially prepared for Puppies under 4 months old.

From a series of comparative experiments it was proved that ESSETS FLUID is  
**MORE POWERFUL THAN CARBOLIC ACID,**  
and that it stands in the  
**FRONT RANK AS A DEODORIZER.**



and from special experiments made by me  
I can conscientiously say that **ESSETS FLUID** is

**A POWERFUL GERMICIDE WHICH READILY DESTROYS THE MICROBE OF  
YELLOW FEVER".**

ରେପୋର୍ଟ୍ସ ଓନ୍ ଏସେଟ୍ସ ଫ୍ଲୁଇଡ

## THE MEDICAL PRESS.

The *Lancet*, July 1st, 1893.—**Essets Fluid, Germicide, Antiseptic, &c.**—Compounds of the type of the above fluid have been largely appreciated as active and agreeable disinfectants. One commendable feature of this fluid is that it is practically non-poisonous, consisting largely of the homologues of phenol, rather than of true phenol itself, which, of course, is distinctly poisonous. It is a clear dark brown fluid, with a strongly alkaline re-action, giving rise to a perfectly uniform milky emulsion when diluted with water. **Essets Fluid** affords an efficient disinfectant and antiseptic, and has the further advantage of being very convenient to use both for surgical and ordinary purposes.

The **British Medical Journal**, October 14th, 1893.—This Fluid is intended for disinfecting and purifying purposes. It is a dark brown liquid of a strong degree of alkalinity, and mixes easily with water to form a white emulsion. We find that it possesses a high antiseptic power. We entertain a very favourable opinion of the preparation, and are able to recommend it.

## **CHEMICAL INVESTIGATION**

By BOVERTON REDWOOD, F.R.S.E., F.I.C., and A. J. DE HAILES, F.I.C., F.C.S.

We have made a chemical examination of the disinfectant known as **ESSETS FLUID**, and have subjected the material to a series of practical tests with a view of ascertaining its properties in relation to the objects for which it is intended.

We have satisfied ourselves that the fluid exercises a true germicidal action in a high degree, and that a relatively small quantity suffices to prevent the development of bacteria in putrescible substances.

The disinfectant being readily miscible with water may conveniently be applied in any required degree of dilution, and may therefore be

We have undertaken to report upon this material on the understanding that as long as our certificate is made use of, we are at liberty to satisfy ourselves by periodical examination of samples obtained by us through ordinary business channels that the quality of the disinfectant is employed economically.

**BOVERTON REDWOOD,  
A. J. DE HAILES.**

## **BACTERIOLOGICAL INVESTIGATION**

**By A. B. GRIFFITHS, Ph.D., F.R.S. (Edin.), F.C.S.** (*See Report*, pp. 4 and 5.)

It was found that Essets Fluid destroyed the microbe of—									
Asiatic Cholera .. .. .. ..	in 30 seconds.	Glanders .. .. .. ..	in 24 seconds.						
Typhoid Fever .. .. .. ..	in 32 "	Diphtheria .. .. .. ..	in 20 "						
Scarlet Fever .. .. .. ..	in 5 "	Phthisis (Consumption) .. .. .. ..	in 20 "						

**Essets Fluid** was added to a number of tubes containing pure cultivations of the six microbes above mentioned. **Essets Fluid** of 0·5, 1 and 2 per cent. strength completely destroyed the microbes of Asiatic Cholera, Typhoid Fever, Glanders, Scarlet Fever, Diphtheria, and Phthisis.

## **MEDICAL, SURGICAL OPINION.**

25, ALBEMARLE STREET, PICCADILLY, W.  
May 16th, 1893.  
s with the greatest comfort and success. Comfort,  
ever seen healing take place so rapidly as under its  
care.

## GENERAL

---

From the DUKESS OF NEWCASTLE

From the DUCHESS OF NEWCASTLE. CLUMBER-WORKSOP, NOTTS, May 22nd, 1893.  
ESSETS FLUID has been used in my Kennels and has given great satisfaction as a Disinfectant.—KATHLEEN NEWCASTLE.  
Messrs. J. W. DRYSDALE & Co.

Messrs. J. W. DRYSDALE & Co.

# **ESSETS FLUID.**

The strongest known Disinfectant, Germicide, Antiseptic & Deodoriser. Non-Poisonous, Non-Corrosive, does not Stain.

**Endorsed and Recommended by the Highest Medical, Scientific and Sanitary Authorities.**

PRICES OF ESSETS FLUID TO THE TRADE:

Bottles (10 oz.)	Retail Prices, 1/-	Trade Prices, 7/- per doz.
½ Gallon Drum (Drum included)	2/6	1/10 each.
1 "	4/-	3/- "
2 "	7 6	5 8 "
5 "	19/-	13 4 "
10 "	36/6	25 8 "
Casks, 40 Gallons" (Cask Included)		2 - per Gall.

TERMS :—Cash Discount 2½ per cent. Monthly. Delivered free in London. For the Country, free on Rail, or at Wharf.

TO BE OBTAINED THROUGH ANY OF THE WHOLESALE HOUSES.

Sole Agents: **J. W. DRYSDALE & CO.,** 8, CREECHURCH LANE, LONDON, E.C.

Telegraphic Address:—“HAMILTON, WANDSWORTH.”  
**SEASON 1894-5.** **SEASON 1894-5.**

## ABSTRACT OF PRICE LIST.



Silver Medal, Edinburgh, 1890.

BOTH HIGHEST  
AWARDS.



Gold Medal, Jamaica, 1891.

**Wandsworth Chemical Works, Limited,**  
**Manufacturing Chemists,**  
**WANDSWORTH, LONDON, S.W.**

### “PINEOTAS” DISINFECTANTS.

#### “PINEOTAS” DISINFECTING POWDER.

½-lb. Packets, handsomely labelled, 6/6 per gross.
1-lb. ” ” 12/- ”
Handsome Large ” Decorated Tins, to retail at 1/- each, 4/- per doz.
Ditto, double size, to retail at 1/6 each, 7/- per doz.
In ¼-cwt Bags or Casks ... ... 3/- each.
In ½-cwt. ” ” 5/- ”
In 1-cwt. ” ” 8/6 ”
1 ton lots and upwards, £7 per ton.

#### “PINEOTAS” DISINFECTING FLUID.

(Miscible with cold Water).

For use in Sick Rooms, &amp;c.

½-pint Round Shouldered Bottles ... 4/6 per doz.
1-pint ” ” 8/- ”
In Drums, Jars, or Casks ... ... 3/6 per gall.

#### “PINEOTAS” CRUDE FLUID.

Recommended for Disinfecting Drains, Sinks, Stables, W.C.’s, &amp;c.

½-pint Round Shouldered Bottles ... 4/6 per doz.
1-pint ” ” ... 8/- ”
In Drums, Jars, or Casks ... ... 3/6 per gall.

#### “PINEOTAS” DISINFECTING OIL.

#### “PINEOTAS” DISINFECTING SAWDUST.

#### “PINEOTAS” TOOTH POWDER.

(Most refreshing).

#### “PINEOTAS” DISINFECTING SOAP.

#### “PINEOTAS” ANTISEPTIC TOILET SOAP.

#### “PINEOTAS” DISINFECTING SOFT SOAP.

### CARBOLIC DISINFECTANTS.

#### CARBOLIC POWDER.

Pink or Grey Powder.	No. 1. s. d.	No. 2. s. d.	No. 3. s. d.
½-lb. Packets per gross ...	5 6	7 6	8 6
1-lb. ” ” ...	9 6	13 0	15 0
In Fancy Coloured Label- led Tins ...	Medium, 4/- per dozen.		
	Large, 6/6 ”		
Handsome Large Round Black and Gold Decor- ated Tins, to retail at 9d. or 1/- each.	per doz. 4 6 6 0		
Ditto ditto (About double Quantity.)	per doz. 6 0 7 6		
To retail at 1/- or 1/6 ea.			
1-cwt. Bags or Casks, 4 6	5 0	6 6	7 6
1-ton lots and upwards, £3	£4	£5 10	£7

#### Pink or White 15 per cent. Carbolic Powder.

½-lb. Packets ...	... ...	per gross 8/6
1-lb. ” ” ...	... ...	15/-
Ditto in Tins ...	... ...	6d. size, 2/6 per doz.
” ” ...	... ...	1/- ” 4/- ”
” ” ...	... ...	1/6 ” 7/- ”
In Bags or Casks ...	... ...	per cwt., 7/6

1-ton lots and upwards, £7 per ton.

*The above Tins are the largest in the Market.*

#### CRUDE CARBOLIC ACID.

½-pint Patent Stoppered Bottles ...	4/- per dozen.
1-pint ” ” ” ” ...	8/- ” ” ” ”
1-quart ” ” ” ” ...	14/- ” ” ” ”
Crude (Strong) Carbolic Acid in Tins or Drums	Per Gallon
1 to 10 gallons each ...	No. 1. No. 2. No. 3. s. d. s. d. s. d.
	1 0 1 3 1 6
Special quotations for 40 to 42-gallon casks.	

Agency:—116, PRINCESS STREET, MANCHESTER.

*Contractors to H. M. Government.*

**W<sup>M</sup> GRAY & CO., HULL.**

**Lead Manufacturers.**

**LEAD. - -**

{ English White Lead Ground  
in Oil. Finest Mill-Rolled  
Sheet Lead. Hydraulic  
Drawn Piping & Traps.

**PAINTS.**

{ Celebrated "IVY" Brand  
Liquid Paints, Varnish  
Stains, and Enamel  
Paints.

{ Paints Ground in Oil, Turps  
or Water; every Tint and  
Colour.

{ Strong White Patent Dries  
(Speciality).

**OILS, GREASES.**

{ Linseed Oil Boilers. Colza  
Turpentine.

**VARNISHES.**

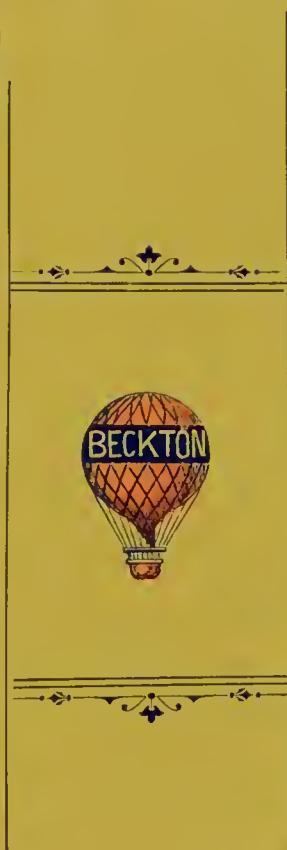
{ For every Trade; Specialt  
for Carriage Makers.

**PLATE GLASS.**

{ Both for Glazing & Mirrors  
also Sheet Glass.

THE GAS LIGHT & COKE COMPANY, LONDON.

# Disinfectants.



For Particulars and Prices, application must be made to

*The Company's Agent*

**W. G. BLAGDEN, 4 Fenchurch Avenue,  
LONDON. E.C.**

P.T.O.

**THE GAS LIGHT AND COKE COMPANY, LONDON.**

# DISINFECTANTS.

## Detached Pure Carbolic Acid Crystals (Poison).

For Dressing Wounds. Gargle for Sore Throats. For Burns, Scalds, &c.  
For Eczema and Chronic Skin Diseases. For Mosquito Bites.

## Carbolic Disinfecting Powder 15%.

*For Traps of Drains, Water-closet-Pans, Dung-hills, Stables, Kennels, Poultry and Pigeon Houses, &c., and any place where obnoxious smells are likely to arise.*

## Liquid Carbolic Acid (Poison).

For Drains, Urinals, Water-closets, and places where bad smells emanate.

## Liquefied Pure Carbolic Acid Crystals (Poison.)

In Sick Rooms, where disease is contagious, and where unpleasant odours are given off.

For Dwelling and Sleeping Apartments, &c., especially where there is sickness.  
As a sprinkler for carpets or rooms before sweeping.  
As a Bath, in cases of Scarlatina, &c. For use in the ordinary Bath.

## BECTOL.

For cleansing of Floors and Paint of Rooms after Sickness.

For scrubbing of Pantries, Food Stores, &c.

For deodorizing of Stables, Kennels, Cow Sheds, Poultry Houses, &c.

For watering Garden Paths, destroying Weeds, flushing Drains and Water-closets, and preventing offensive odours arising from decaying vegetation.

For general purifying purposes, as a preventative against contagion.

**Bectol** is a powerful and effective deodorizing agent, combining the active antiseptic properties of the purest Carbolic Acid with the purifying principle of essential Oils. Its pleasant odour and the non-corrosive character of its solutions (being perfectly neutral—neither Acid nor Alkaline) render it particularly adaptable for use in household cleansing, as the scouring of floors and paint of rooms, where there has been sickness, the scrubbing of pantry cupboards, food stores, &c. Its use generally in and about dwellings will preserve health and effectually prevent contagion. It is invaluable for the deodorizing of Stables, Kennels, Cow Sheds, Poultry Houses, &c. being a safe and certain disinfectant. The purifying influences of its odour will destroy and keep away insects, prevent all unpleasant smells, and preserve the health of the occupants. Its free solubility facilitates its use where large quantities of water are requisite, and for use over large surfaces, as the watering of garden paths, flushing of drains and water-closets, and the prevention of offensive odours arising from decaying vegetation.

## Benzine For Cleansing Purposes.

For removing all greasy and tarry spots or stains from Upholstery, House Linen, Wearing Apparel, Cloths, Velvets, and Fabrics of every description.

For Particulars and Prices, application must be made to the Company's Agent.—

**W. G. BLAGDEN, 4 Fenchurch Avenue, LONDON, E.C.**

# LEATH & ROSS'S WELL-KNOWN BRAND OF HOMŒOPATHIC MEDICINES

Command the largest sale. No Chemist should be without them.

PARCELS ENCLOSED DAILY to any of the London Wholesale Houses to save Carriage.

## HANDSOME & ATTRACTIVE COUNTER SHOW-CASES,

Bright or Flat, at £3 3s., £4 4s., £5, £6 6s., £10 10s., & £21.

(See three following Pages.)

## DESK CASES,

Price, £5 12s. 6d.  
and £6 6s.

Cases to any pattern and of any kind of wood made to order.

All  - MEDICINES **3/6** PER DOZEN.  
NO CHARGE WHATEVER FOR THE CASE.

## OPINIONS OF THE TRADE

ON OUR HANDSOME COUNTER SHOW-CASES.

W. B. S. says:—"I am delighted with the splendid Case. It is a very good addition to my counter, and I hope you will find many customers for such an exceedingly good and excellent supply of Homœopathic Medicines."

H. writes:—"Many thanks for Case, which arrived safely. I like it very much, and it certainly gives a handsome appearance to my counter."

PRICE LIST AND FULL PARTICULARS, POST FREE.

## LEATH & ROSS,

Wholesale & Export Homœopathic Chemists,

, VERE ST., OXFORD ST., W. (WHOLESALE DEPARTMENT)  
AND 5, ST. PAUL'S CHURCHYARD, E.C. } LONDON.

(See following three Pages.)

# LEATH & ROSS'S HANDSOME AND ATTRACTIVE COUNTER SHOW-CASES.

## SPECIAL TRADE NOTICE.

OUR

# £5

Handsome & Attractive

## CASE

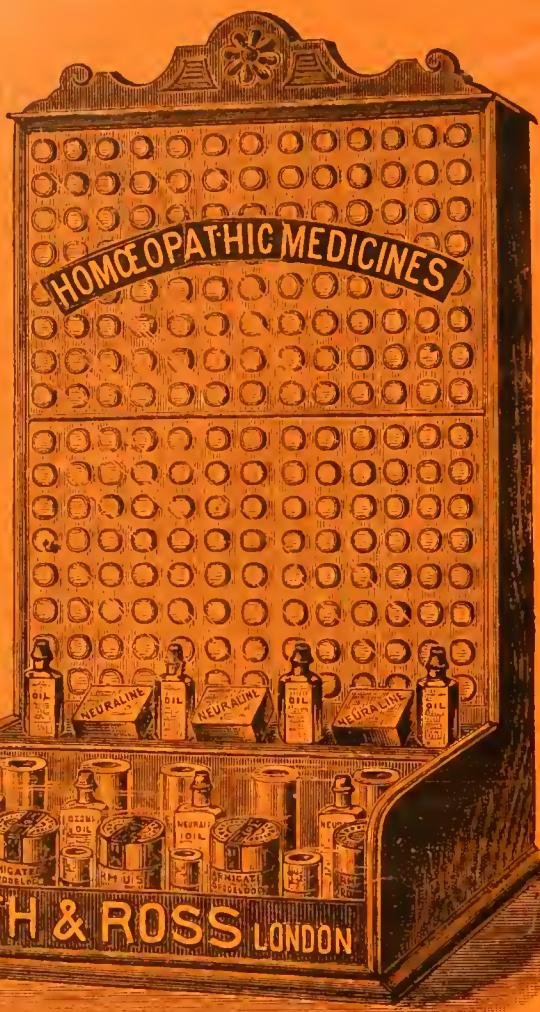
(OPEN BACK OR FRONT).

Fitted complete with Tinctures and Pilules (to customers' own selection if required) to the Net value of £5, thus yielding a handsome profit without trouble or inconvenience.

When ordering, kindly say if the Case is required to open back or front.

DIMENSIONS—

Length, 19 $\frac{3}{4}$  in.  
Width (from back to front),  
11 $\frac{3}{4}$  in.  
Height, 32 $\frac{1}{2}$  in.



## No Charge

WHATEVER FOR

## THE CASE.



Other Agents' Cases, upright or flat, at £3 3s., £1 4s., £6 6s., £10 10s., and £21. All the Cases can be had in Mahogany, Walnut, or other Fancy Wood, to match Shop Fittings, and fitted with 6d. stock, 6d. and 1s. stock, 9d. and 1s. stock, or all 1s. stock, as preferred.

THE ABOVE VERY HANDSOME AND IMPROVED BENT-GLASS

## CHEMISTS' COUNTER SHOW - CASE

Stands unrivalled for style, convenience, and beauty ; occupies but a small space on the counter ; is made to open back or front, to suit the convenience of the purchaser and the position it is intended to occupy. It is a splendid advertisement, attracting the notice of all customers, and proves a great source of profit to all who possess it. Our Homœopathic Medicines are known all over the world, and are in great demand everywhere. More than 2,500 Chemists in the United Kingdom alone stock them, besides having agencies in nearly all the British Colonies, in India, Africa, New Zealand, China, and other parts of the world.

A Similar Case, with Desk at back, Price £5 12s. 6d.

DIMENSIONS—Length, 19 $\frac{3}{4}$  inches ; width (from back to front), 22 inches height, 32 $\frac{1}{2}$  inches.

See preceding and two following Pages.)

OUR

## TINCTURES, PILULES, AND CAMPHOR

Are in great demand everywhere, and can be had in any strength from the (1) (mother), 1x : 1, and upwards.

1/- Size

3/6 per  
doz.  
Cash.

9d. size, 2/9 "

6d. size, 2/- "

A Smaller Case can also be had of the same pattern.

DIMENSIONS—

Length, 15 $\frac{1}{2}$  in.  
Width (from back to front),  
11 $\frac{3}{4}$  in.  
Height, 28 in.

Price £3 3s.

# LEATH & ROSS'S HANDSOME AND ATTRACTIVE COUNTER SHOW-CASES.

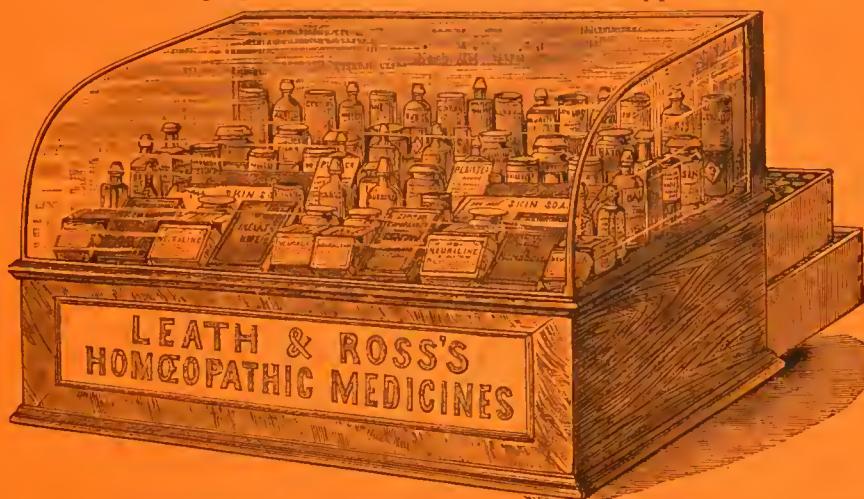
Handsome  
HOW-CASES  
in  
various designs,  
or  
to order,  
in  
Mahogany,  
Walnut,  
or other  
Fancy Wood  
to match  
Shop Fittings.

Upright or Flat  
HOW-CASES  
from  
**£3 3s.**  
to  
**£21.**  
NO CHARGE  
whatever for the  
CASE.

ALL CASES  
and  
ESK CASES  
to order.

## Our £21 'COLONIAL' OR 'STORE' CASE

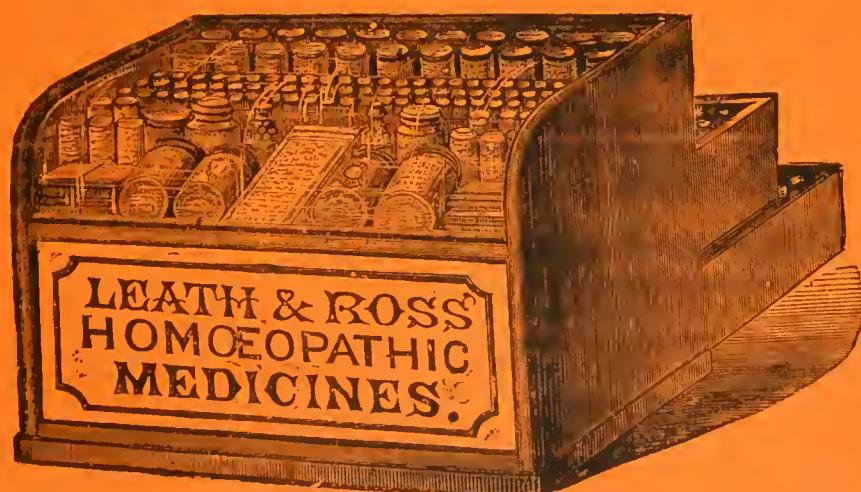
As Diagram below, or with bevelled-edge Mirror, and Carved Back,  
or Upright Back as £5 CASE opposite.



DIMENSIONS—Length, 37 inches; breadth, 23 inches; height, 16 $\frac{3}{4}$  inches.

## Our £10 10s. AGENTS' CASE

As Diagram below, or with Mirror and Carved Back, or Upright  
Back, similar to the £5 CASE opposite.



DIMENSIONS—Length, 22 inches; breadth, 15 inches; height, 13 $\frac{1}{2}$  inches

(See preceding two Pages, and following Page.)

CASES  
made to fit  
in  
recess, or any  
Special Position  
on receipt  
of  
Measurements.  
All the  
CASES  
can be had  
fitted with  
**6d., 9d., or 1/-**  
Stock, or to  
Customer's  
own  
Selection,  
and in  
any strength.

BOOKS  
on the  
treatment of  
Common  
Complaints,  
Counter Bills,  
& Show Cards,  
FREE.

# LEATH & ROSS'S WELL-KNOWN BRAND OF HOMEOPATHIC MEDICINES.

Capsuled and Put up ready for Sale in neat Cardboard Cases, with the dose of each Medicine on the Case.

KNOWN ALL OVER THE WORLD.  
IN GREAT DEMAND EVERYWHERE.

To prevent disappointment, kindly specify that LEATH & ROSS'S Homœopathic Medicines are required, when ordering through Shippers or Wholesale Agents.

No Chemist or Medicine Vendor should be without them.

Upwards of 2,500 Chemists Stock our Medicines and find a ready sale for them.

Can be had in any strength from the (1/2) (mother), 1x : 1, and upwards.

6d. size, 2/- per doz. cash.  
9d. , , 2/9 , ,

Orders for Dozens or Half-dozens of each Medicine are put up in Cardboard Slide Boxes, and fully labelled on the outside; the stock is thus kept clean, readily seen, and occupies a very small space.

## OUR £4 4s. AGENTS' CASE.

As Diagram below, or with Mirror and Carved back, or upright back similar to the £5 Case on Page 2.

Several Hundreds of our Cases have been sent out, as they tend greatly to increase the Sale.



DESCRIPTION—A handsome Bent-Glass Case with two drawers, the contents of top drawer visible, the Pilules and Tinctures arranged in alphabetical order.

DIMENSIONS—Length, 21 in. : Breadth, 12 in. ; Height, 9 in.

Show-Card, Transparencies for Window, Counter Bills, and Books (for gratuitous distribution on the Treatment of Common Complaints, sent with each Case.

A SIMILAR CASE TO THE ABOVE CAN BE HAD, PRICE £6 6s.

Dimensions—Length, 20 in. ; Breadth, 16 in. ; Height, 9½ in.

**LEATH & ROSS,**  
Wholesale and Export Homœopathic Chemists,  
**9, VERE ST., OXFORD ST., W.** (WHOLESALE DEPARTMENT)  
AND 5, ST. PAUL'S CHURCHYARD, E.C. } LONDON.  
(See preceding three Pages.)

**WHOLESALE TRADE ONLY.**

**STAFFORD ALLEN & SONS**

(ESTABLISHED 1833),

DRUG MILLERS, OIL PRESSERS,

AND

DISTILLERS OF ESSENTIAL OILS,

7 COWPER STREET, FINSBURY, LONDON, ENGLAND.

**EXPRESSED OILS**

ALMOND (Ol. Amygd. Dulc.)

PEACH KERNEL (Ol. Amygd. Persic. Dulc.)

Frequently imported as Ol. Amygd. Exot.

CROTON

**ESSENTIAL OILS**

ALMOND

ANISEED

BUCHU

CARAWAY

CARDAMOM

CELERY

CINNAMON

CLOVE

CORIANDER

CUBEB

CUMMIN

DILL

JUNIPER

NUTMEG

ORRIS ROOT

PEACH KERNEL

PEPPER

PIMENTO

**SANDAL WOOD**

AND OTHERS.

HIGHEST AWARDS CHICAGO, 1893, "FOR OILS OF EXCEPTIONAL PURITY AND STRENGTH."

**GEORGE ALLEN & CO.**

(ESTABLISHED 1846),

AMPHTHILL, BEDFORDSHIRE, ENGLAND,

**MANUFACTURING CHEMISTS,**

Medicinal Herb Growers, Distillers, Manufacturers of

**SOLID & FLUID EXTRACTS, JUICES, &c.**

London Agents—**STAFFORD ALLEN & SONS.**

NEW YORK: 281 PEARL ST.

# GRASSI

# SOZIO & ANDRIOLI

ESTABLISHED

# GRASSE

---

STEAM WORKS FOR ALL KINDS OF

# ESSENTIAL OILS

AND

# RAW MATERIALS FOR PERFUMERS.

### HIGHLY RECOMMENDED:

OIL OF NEROLY BIGARADE,	OIL OF LAVENDER, Mont Blanc.
Pétale extra.	" SPIKE LAVENDER.
„ GERANIUM,	" THYME (Red and White).
twice rect. on Rose flowers.	" ROSEMARY
„ ORRIS,	(for Eau de Cologne.)
crystallising at +15° Réaumur.	" PATCHOULY.
„ CLOVES, true Bourbon.	" SANDAL WOOD, &c., &c.

### LARGEST IMPORTERS OF

**OIL OF GERANIUM RÉUNION.**

**OIL OF VETIVERT RÉUNION.**

**OIL OF YLANG-YLANG RÉUNION**

**FRENCH**

Our well-known and ver

**STOCK KEPT**

Sole Agent—MR. FREDK. BOEHM

**GRASSI**

(FRANCE).

# SOZIO & ANDRIOLI,

A.D. 1757.

(FRANCE).

SPECIALITIES:

## FLOWERS POMADES

OF

THE HIGHEST SATURATION.

## CONCRETE ESSENTIAL OILS

OF FLOWERS.

For Perfumers and Cachou Makers.

BEST BRAND FOR

ORANGE FLOWER WATER AND  
ROSE WATER.

## PERFUMES

superior compositions.

IN LONDON.

CULLUM STREET, LONDON, E.C.

(FRANCE).

LONDON: 4 CULLUM STREET.

# ABSOLUTELY PURE ESSENTIAL OILS.

Five Highest Awards—Medals and Diplomas—World's Columbian Exposition, 1893.

RECOGNISED THROUGHOUT THE WORLD THE HIGHEST STANDARD OF QUALITY.

## A. M. TODD'S

CRYSTAL WHITE,  
DOUBLE DISTILLED  
and REFINED

PEPPERMINT,      WINTERGREEN,  
SPEARMINT,      WORMWOOD,

ERIGERON,  
TANSY, &c.

A. M. T.'S CRYSTAL WHITE, DOUBLE REFINED ESSENTIAL OILS are GUARANTEED ABSOLUTELY PURE,  
and are UNEQUALLED in SOLUBILITY, STRENGTH, FLAVOUR, THERAPEUTIC VALUE, WHITENESS,  
and GENERAL EXCELLENCE.

They are supplied in Bottles of 1 lb., 8 oz., 4 oz., and 500 grammes, &c., each bottle having the producer's name blown thereon, being sealed with metallic seals similarly impressed, secured by guarantee of quality over the producer's signature. To secure the most rapid and complete introduction possible, the prices are placed much below their true value, bringing the *highest quality produced* within the reach of all.

FOR FULL INFORMATION, ADDRESS

**WIDENMANN, BROICHER & COY.**  
GENERAL AGENTS FOR GREAT BRITAIN,  
**33 LIME ST., LONDON, E.C.**

HEAD OFFICE AND WORKS:—KALAMAZOO, MICHIGAN, U.S.A.

The most extensive Peppermint plantations and works in the world.

Established A.D. 1869.

TO WHOLESALE AND EXPORT TRADES.

**W. RANSOM & SON**  
(ESTABLISHED HALF A CENTURY),  
MANUFACTURING PHARMACEUTICAL CHEMISTS,  
Distillers of Essential Oils and Cultivators of Medicinal Plants,  
**HITCHIN, near LONDON.**

#### SPECIALITIES:—

SOLID AND LIQUID EXTRACTS.	EXPRESSED JUICES.	ESSENTIAL OIL OF LAVENDER.	
ESLATERIUM.	ESSENTIAL OIL OF PEPPERMINT.	SCAMMONY RESIN.	JALAP RESIN.
MERCURIAL PILL AND OINTMENT.	ENGLISH ACONITE ROOT.	ALOIN.	ENGLISH DANDELION ROOT.
DRYED MEDICINAL LEAVES.			

All Standardised Preparations of the British Pharmacopœia are tested and corrected by our Analyst before leaving the Laboratory.

International Exhibitions—London, 1862; Chicago, 1893. Prize Medals awarded for Pharmaceutical Extracts, Essential Oils and Dried Herbs of Superior Quality. Also Award at the Paris Exhibition, 1867.

## R C TREATT

Dunster House Mineing Lane  
LONDON

IMPORTER OF

Musk    Civet    Ambergris    Attar - of - Rose  
ESSENTIAL OILS



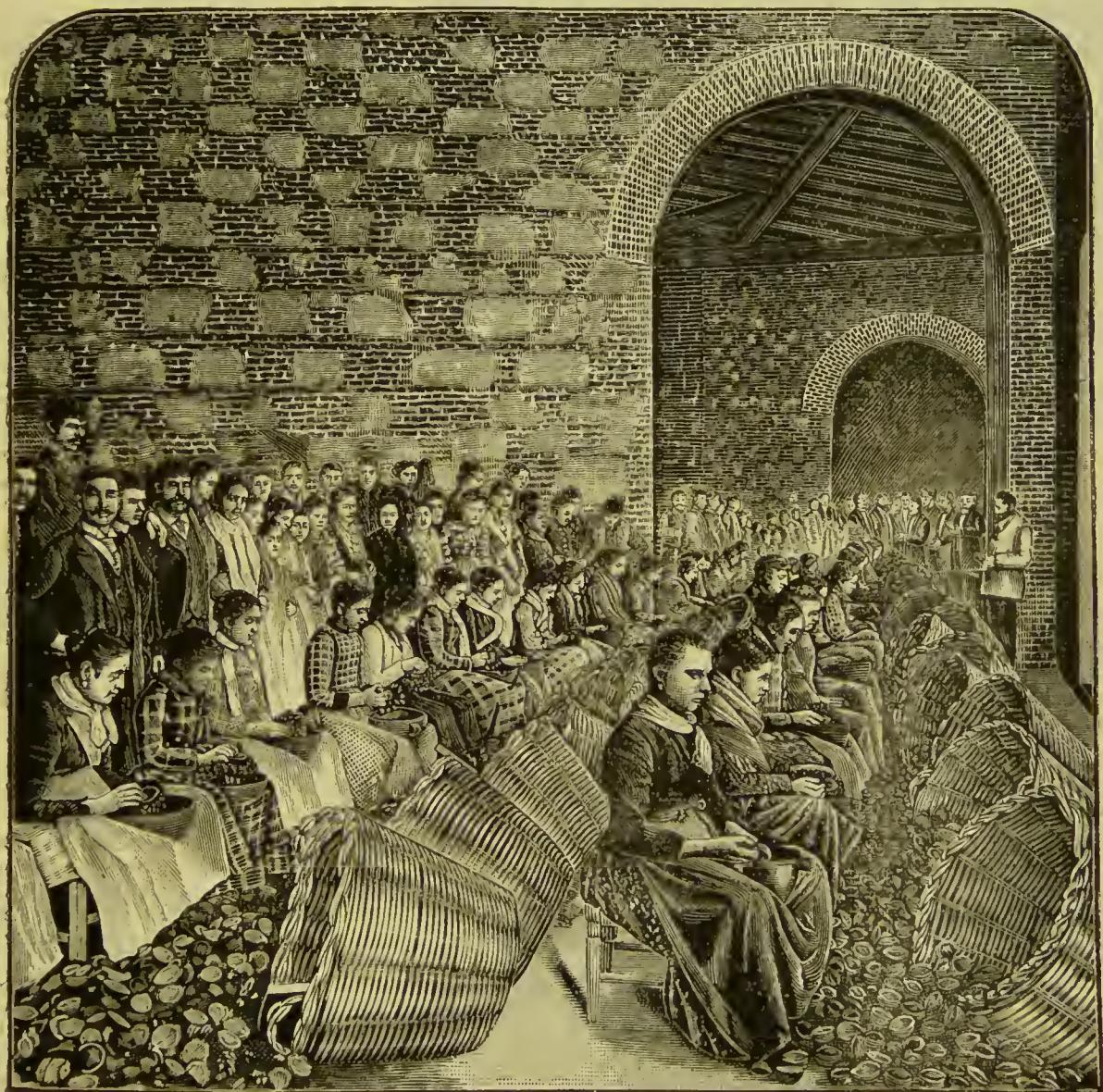
Wholesale  
and  
Export  
only

APPLICATION  
ON

QUOTATIONS

AND

PRICE LIST



EXTRACTING THE OIL FROM THE LEMON IN MESSRS. SANTI LE PASQUALE &amp; FIGLI'S WORKS, MESSINA.

**SPECIALITY—ESSENTIAL OILS OF LEMON, BERGAMOT, AND ORANGE.**

One Quality only. Prepared from November-cut Fruit, and guaranteed Absolutely Pure.

**NOTICE!**—All our Agencies have now terminated, and we have appointed J. W. DRYSDALE & CO.,  
8 Creechurh Lane, LONDON, E.C., our Sole Wholesale Agents and Consignees  
for the United Kingdom.

MESSINA, ITALY, 1st March, 1894.

SANTI DE PA QUALE &amp; FIGLI.

## SPURWAY & CIE.

Perfume Manufacturers, Cannes-Grasse, France.  
Established 1820.

Gold Medals Philadelphia, 1876; Cannes-Grasse,  
1893; Nice, 1884.

## FRENCH ESSENTIAL OILS, PURE OLIVE OILS, POMADES, &c.

SPECIALITY—Finest Quadruple Extracts  
of inimitable and lasting Fragrance.

STOCK KEPT WITH LONDON AGENTS—

MESSRS. TEALE & COX, 147 ALDERSGATE STREET, E.C.

## 50 YEARS SUCCESS HOPGOOD'S NUTRITIVE & HAIR SEDATIVE CREAM.

The only preparation for the Hair recommended by leading Physicians for  
the removal of Scrit, allaying irritation, preventing greyness and baldness,  
and producing a LUXURIANT HEAD OF HAIR.

JOHN A. WALCOTT, M.D., M.R.C.S., says:—"I feel much pleasure in  
being able to recommend (with confidence) your NUTRITIVE CREAM  
in all cases of irritation of the scalp, accumulation of dandruff and loss of  
hair, in each of which I have freely used it with UNFAILING SUCCESS."

In Bottles to Retail at 1/6, 2/6, and 3/6. Revised Wholesale Prices, 12/6,  
20/-, 30/- per doz. Supplied by all Wholesale Sundry Houses.

OR FROM THE DEPOT—

OSBORNE, GARRETT & CO., 51 Frith St., Soho, LONDON, W.

## Dr. O. E. HORN'S

SCIENTIFIC SPECIALTIES FOR

### THE HAIR, SCALP AND SKIN.



"EAU HORN," "GERMANIA HAIR TONIC," "ACESMA," "HAIR SOLVENT," "SKIN FOOD," and numerous other preparations are having an extensive sale.

WELL ADVERTISED. GOOD DISCOUNTS.

Send for Price List and attractive Show Cards to the sole manufacturers,

CASSIE & CO., 49 Newgate St., LONDON.

## BRECKNELL'S SKIN SOAP.

(PRIZE MEDAL.)

The original unsophisticated Soap for Toilet Use.

### A SUPERIOR & BENEFICIAL SOAP FOR CLEANSING THE SKIN WITHOUT IRRITATING IT.

It is made of the best materials only, and in effect leaves the Skin sweet and fresh, without the use of perfume.

#### RECOMMENDATIONS.

It improves by keeping, and gains a natural perfume from age alone.  
It has been recommended by eminent Medical Men.  
It is not only absolutely pure, but it refreshes and softens the Skin, as well as effectively cleansing it.  
When long kept is a luxury to use, and increases in value.  
It is altogether the sweetest and most wholesome Unscented Soap in existence.  
The low price at which it is sold brings it within the reach of all classes.

BRECKNELL, TURNER & SONS,  
To Her Majesty, the Prince of Wales, &c.  
HAYMARKET, LONDON, S.W.  
ESTABLISHED 1762.

## Heinrich Haensel's

### TERPENELESS Essential Oil of LEMON

30 times the strength of ordinary oil.

### TERPENELESS Essential Oil of ORANGE

30 times the strength of ordinary oil.

### TERPENELESS Essential Oil of CARAWAY

2½ times the strength of ordinary oil.

### TERPENELESS Essential Oil of PEPPERMINT

2 times the strength of ordinary oil.

### TERPENELESS Essential Oil of ANGELICA

30 times the strength of ordinary oil.

### TERPENELESS Essential Oil of JUNIPER BERRIES

20 times the strength of ordinary oil.

The above Essential Oils are absolutely free from the coarse  
objectionable insoluble Terpenes.

Professor Virgil Coblenz, in his notes on "Terpeneless Volatile Oils" (*vide PHARMACEUTICAL JOURNAL AND TRANSACTIONS*, June 16, 1894, page 1046), says:—"The insolubility of the Volatile Oils is often the source of annoyance and loss, since in the preparation of the aromatic extract the addition of oil renders the solutions turbid, with the separation of a portion of the oil, and renders subsequent clarification necessary, which entails a loss of material and time. The presence of these terpenes gives rise to other difficulties, besides hindering the solubility, in connection with their use in essences, confections, &c. Although the oil employed may be fresh and sweet, the articles flavoured will, on standing, gradually develop a terebinthinate odour and taste, due to the oxidation of the terpenes in the oil. Thus we see that the presence of these terpenes in many oils simply covers the true flavour, and is a constant source of menace to their quality."

#### Terpeneless Oil of LEMON.

Terpeneless Oil of ORANGE. Every 1 lb. SAVES in practical use more than £12 STERLING in ALCOHOL, besides IMPROVING Flavour and Taste.

## SOLUBLE ESSENCES

Of double, triple, quadruple, &c., strength can at once be made by simply dissolving the Terpeneless Oils in dilute alcohol. Proof-spirit can even be used for making Soluble Essences of Lemon and Orange of usual strength.

### WEAK ALCOHOLIC SOLUBLE TINCTURES of LEMON or ORANGE,

Made from the peel in the ordinary way, can be fortified, and aroma and taste considerably improved, by simply adding a little of Haensel's Terpeneless Non-clouding Oils.

#### LEMONADE, SYRUPS, and CORDIALS, &c.

Are made of a much stronger and infinitely purer lemon flavour and taste with the Terpeneless Oil than is possible with the ordinary oil, owing to the increased solubility, great strength, and refined aroma of the Terpeneless Oil, which will never become turpentiney.

The Terpeneless Essential Oils were first introduced in 1876 by the Inventor, HEINRICH HAENSEL, PIRNA-ON-THE-ELBE. Their excellence is now recognised throughout the civilised world by those who are accustomed to buy and employ the best article in the market.

**CAUTION.—Beware of adulterated Essential Oils and imperfect imitations.** The genuine Terpeneless Oils are sold in sealed bottles of 1 oz., 4 oz., and 1 lb. each, which bear the Registered Trade Mark and Seal of the Inventor, "HEINRICH HAENSEL, Pirna-on-the-Elbe."

Full particulars and list of the other Terpeneless Concentrated Oils  
on application to

**WILLIAM POPPELREUTER,**  
54 PORTLAND ST., MANCHESTER,

THE BEST

## EAU DE COLOGNE.

THE  
4711  
BRAND.THE  
4711  
BRAND.Commands the Highest  
Retail Price.Beware of  
fraudulent imitations of our  
Registered Label.THE  
4711  
BRAND.

OF ALL FIRMS IN THE TRADE

Write for New Duty-paid Price List to

**R. J. REUTER, Sole Agent,**  
62 NEW BOND STREET, LONDON, W.THE  
4711  
BRAND.
**GREENSILL'S**  
 ORIGINAL  
**MONA BOUQUET.**

Wholesale and Shipping Terms sent on application to the Sole Manufacturers—

**GREENSILL & SON, DOUGLAS.**  
 ESTABLISHED 1852.

**PETROLEUM JELLY**

WHITE, RED AND YELLOW TRADE MARK  
 CONFORMS TO ALL REQUIREMENTS OF B.P.  
 S L

AND PRONOUNCED BY THE MEDICAL PROFESSION TO BE UNSURPASSED.

Extract from Analytical Report of Dr. S. Rideal, F.C.S., F.I.C., F.G.S., May 21st, 1892.

"Practically tasteless and free from smell, contained no fat or resin, \* \* \* carefully manufactured."

**SNOWDON, SONS & CO., MILLWALL, LONDON, E.**

**EDWARDS'**

# "HARLENE" FOR THE HAIR

WORLD-REOWNED HAIR PRODUCER AND RESTORER.

Sells Better and Quicker than any other Hair Preparation.

FOR THE HAIR.

FOR THE HAIR.



Handsomely-framed Show-cards in 15 colours, size 16 by 21, and 1,000 Counter Bills with Chemist's Name and Address, sent carriage paid on application.

1s., 2s. 6d., and 5s. 6d. per Bottle.

WHOLESALE OF

**EDWARDS & CO., 95 HIGH HOLBORN, LONDON, W.C.**

# Head-Quarters for Sponges.

**CRESSWELL BROTHERS  
AND SCHMITZ,  
Sponge Importers & Merchants**  
18 & 19 Red Lion Square  
**LONDON, W.C.**  
*The only firm with its own establishments on the  
Sponge Fisheries.*



SUMMER SEASON, 1894.

## GREAT SPONGE SHOW

Now open at additional Warehouse.

**CRESSWELL BROTHERS & SCHMITZ** having found the extensive additional warehouse which they had taken temporarily a great convenience to their customers and to themselves, they have arranged to occupy it for a longer period than was at first projected. It has a clear floor space of **3,000 square feet**, and it is filled with a large assortment of Sponges of all kinds and qualities, including some recently imported parcels.

THE MOST  
EXTENSIVE  
AND  
ATTRACTIVE  
STOCK EVER  
OFFERED TO  
THE  
TRADE.



THOUSANDS  
OF CASES  
TO  
SELECT  
FROM.  
SPECIALLY  
LOW  
PRICES.

GREAT SPONGE EXHIBITION—CENTRE VIEW—at Large Additional Warehouse, 18 & 19 RED LION SQUARE, WC.

"The floor is particularly well adapted for the purpose, being light and very roomy, and I was surprised to see the quantity of sponges, . . . piles upon piles of cases, from which buyers could select their stock there."—THE CHEWIST AND DRUGGIST, April 28, 1894.

Buyers have now an opportunity, which they should on no account miss, of laying in a good stock of Sponges at below usual prices. A personal inspection is earnestly invited. Those unable to call at an early date are recommended to write at once for sample cases.



**CRESSWELL BROTHERS & SCHMITZ** are the largest Sponge Importers in the World. THE CHEMIST AND DRUGGIST: "They take now nearly 40 per cent. of the sponge imports of the United Kingdom, and showed our traveller the official documents which prove their statement."

**CRESSWELL BROTHERS & SCHMITZ'S REGULAR STOCK IS THE LARGEST AND BEST ASSORTED IN THE WORLD.**

Sponges are supplied by the original case or bale, and by the bin, dozen, String, box, or card. In every case the best value in the market is given.

ILLUSTRATED PRICE LIST FREE ON APPLICATION.

# CAUTION.

# A. S. LLOYD'S EUXESIS.

FOR  
SHAVING WITHOUT SOAP, WATER, OR BRUSH.

**R. HOVENDEN & SONS** having purchased under an administration suit the business of the late A. S. LLOYD, with the receipt, trade-mark, and goodwill of the celebrated Euxesis, the trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses.

The label is printed with Black Ink only on a yellow ground.

31, 32 & 33 Berners St., W., and 91, 93 & 95 City Road, E.C., LONDON.

**JAMES  
BURROUGH,**

**FINE PORT** (without tannin)  
**FINE SHERRY** (for Medicinal uses, &c.)  
**FINE MALAGA** (for Steel Wine, &c.)  
**FINE BURGUNDY** (for invalids)  
S.V.R. and Methylated Spirit at lowest present prices.

CALE ST. DISTILLERY

*All at Lowest Prices and  
specially recommended.*

CHELSEA

See also Inset in this Issue.

**BOORD & SON,**  
DISTILLERS, FOREIGN WINE AND SPIRIT MERCHANTS, AND METHYLATORS,  
ALLHALLOWS' LANE AND BARTHOLOMEW CLOSE, LONDON, E.C.

Quotations for **S. V. R.** Methylated Spirit and Finish on application.  
FINEST ORANGE WINE FOR QUININE.

PERFECTLY PURE.

NET CASH

WITH ORDER.

**S**  $\frac{0}{56}$  **V**  $\frac{0}{60}$  **R**  
19/11 20/6

TINCTURE SPIRIT

60 O.P. 20/I. 56 O.P. 19/6.

**S**  $\frac{0}{61}$  **V**  $\frac{0}{64}$  **M**

AT LOWEST PRICES.

Special Terms to Large Buyers.

**PURE ORANGE WINE.**

**PURE GINGER WINE.**

FOREIGN WINE AND SPIRIT MERCHANTS.  
SOLE PROPRIETORS OF THE FAMOUS "**GLENALLAN**" PURE MALT WHISKY.  
7 YEARS OLD. THE CREAM OF SCOTCH BLENDS. Per doz. **42/-** Per doz.

**Special Line—FEEDING BOTTLES**

**IRON REDUCED BY HYDROGEN**  
(*FERRUM HYDROGENIO REDUCTUM*)

GREEN CLASS, Plain Neck, best Black Rubber Fittings 20/6 per gross  
WHITE CLASS, Screw Neck, best Black Rubber Fittings 27/11 "

50 to 90 per cent., in accordance with the tests  
of the British, Japanese, & U.S.A. Pharmacopœias.

Manufactured by Dr. P. STEGELITZ and Dr. P. LOHMANN,  
Sole Wholesale Agents and Sole Consignees for the U.K., the  
Colonies, Japan, and China—

**BERGER, KAHLER & CO.,** 7 Mark Lane, LONDON, E.C.

TERMS—Net Cash with order, packages free, delivered to rail or wharf,  
London.

**SURREY PACKING CO.,** 57 New Kent Road, LONDON, S.E.

Stock kept in London.

# A. S. LLOYD'S EUXESIS

## FOR SHAVING WITHOUT SOAP, WATER, OR BRUSH.

### CAUTION.

The labels on genuine EUXESIS bear signature of Inventor, A. S. LLOYD, in *BLACK INK*, and the signature of his Widow, AIMÉE LLOYD, in *RED INK*. Refuse all others.

Manufacturer: **AIMEE LLOYD** (WIDOW OF A. S. LLOYD, formerly of 27 GLASSHOUSE STREET,  
3 SPUR STREET, LEICESTER SQUARE, LONDON.

N.B.—When ordering from Wholesale Houses, write "LLOYD'S EUXESIS (WIDOW'S)."

### CORNS or BUNIONS. A GOOD LINE FOR CHEMISTS.

#### IT WILL PAY TO STOCK AND PUSH OUR FAMILY BOOT STRETCHERS

They will win the gratitude of customers and profit for yourselves.  
Worked by powerful screw action. Three Brass Corn and Bunion Pieces,  
which can be adapted to Relieve Pressure of Boot on any part of the Foot  
WILL STRETCH OR BLOCK ANY SIZE.

RETAIL, PRICE

**5/-**



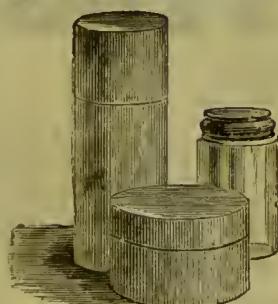
THE FAMILY BOOT STRETCHER.

EACH.

TO BE HAD OF THE MAKERS—  
**E. & W. BELDEN, BOOT TREE & LAST MANUFACTURERS,**  
167 GREAT DOVER STREET, BOROUGH.  
TERMS ON APPLICATION. [1]

In Stock, upwards of 50,000,000 Articles.  
Any Special Articles made to order.

### TURNED WOOD BOXES, &c.



\*3018 Box for Pills or Powders.

SIZE	TO HOLD	PER GROSS.
D ..	6 Pills ..	1/-
A ..	12 .. ..	1/6
C ..	24 .. ..	2/-
H ..	36 .. ..	3/-
V ..	Powder ..	8/-

REDUCED PRICES for Original  
Cases.

CONTRACTS to supply Manufacturers as  
required at specially low figures.

MAXIME & CO., Wood and Bone Turners,  
150 OLD STREET, LONDON, E.C.  
Factories and Sawmills—Gothenburg, SWEDEN, and Boulogne, FRANCE.

**DO NOT FAIL**  
TO READ  
OUR ADVERTISEMENT  
IN SUPPLEMENT.

**HAIR Dressings**  
**HAIR Lotions**  
**HAIR Dyes & Restorers**

**H. P. TRUEFITT, LTD.**

13 & 14 OLD BOND STREET, LONDON.

**JOHN PUTNEY & SON,**  
**ENEMA, SPRAY, INHALER, AND**  
**CEDAR BOX MANUFACTURERS,**

Makers of Cigar and Tobacco Boxes, Cedar and Mahogany Merchants,  
75 Teesdale St., Hackney Road, LONDON, N.E.

Works—Canrobert Street, BETHNAL GREEN, E.

Telegraphic Address—"CEDAR," LONDON.

Established 1835.

## WHITE AND SOUND TEETH.

# JEWSBURY & BROWN'S ORIENTAL TOOTH PASTE.



This old-established and increasingly favourite Dentifrice has been over Sixty Years before the Public. It is warranted to retain its properties and keep in good condition in any climate. The original and only genuine is manufactured solely by

**JEWSBURY & BROWN, Chemists, MANCHESTER,**

and is distinguishable by the Trade Mark, printed in red and green, a facsimile of which is annexed. Particular attention should be paid to this guarantee of genuineness, as numerous imitations are offered Sold universally by Chemists and Perfumers, at 1s. 6d. and 2s. 6d.

The Trade and Shippers supplied by the leading houses in London and elsewhere. Bills and Show Cards forwarded on receipt of address cards and directions for enclosure.

## IMMENSE SALE.

# WOODS' ARECA NUT TOOTH PASTE,

As used and recommended by Madame MARIE ROZE, the Prima Donna.

Removes Tartar, Whitens the Teeth, Sweetens the Breath, and Checks Decay.

PRICE, 6d. and 1s. per Pot. Also Collapsible Tubes, 1s. each.

MAY BE HAD OF WHOLESALE HOUSES THROUGHOUT THE GLOBE.

SPECIAL TERMS SENT ON APPLICATION FOR £5 WORTH.

CAUTION.—See WOODS, PLYMOUTH, on Cover.

# CIGARS & CIGARETTES.

## SAMPLE OF OUR PRICES:

	Per 1,000		Per 1,000		Per 1,000
Cameo Cigarettes ...	33/9	Old Gold ...	19/4	Countess ...	33/9
Richmond Gem ...	33/9	Chancellor ...	33/9	Three Bells Virginia ...	29/6
Richmond Straight Cut ...	38/8	Nanas (with cachous) ...	33/9	Strawfenas (in 10's) ...	38/-

Every known Cigar and Cigarette at same low rates for Cash, and Carriage Paid on £2 Orders.

WRITE FOR QUOTATIONS TO

**H. A. ROBERTSHAW & CO., HALIFAX.**

Best and Safest Dentifrice.



## EWEN'S

Pure Lard ...	11 lb.
Benzd. Lard ...	1/ "
Beef Marrow ...	1/4 "
Beef Suet ...	1/ "
Mutton Suet ...	9 "
Neatsfoot Oil ...	1/6 "
Trotter Oil ...	1/6 "
Zinc Ointment	1/6 "

Violet Powder	10 lb.
Cosmetiques	3/ doz.
Tooth Powder	3/6 ,,
Camphor Rolls	3/3 ,,
Pomades	3/6 ,,
Brillantine	7/ ,,
Soft Soap, B.P.	8 lb.
Grain Musk	110/ oz.

## TOILET AND MEDICATED SOAPS OF ALL KINDS.

**J. EWEN & SONS,** 5 HATFIELD ST., LONDON, S.E.



# READ THIS!



# COOK'S TOILET SOAPS

Of every description, are GUARANTEED PURE.

## SPECIALITIES:

### COOK'S "RIVIERA" SOAP

(SUPER-FATTED)

FOR THE COMPLEXION.

### COOK'S "SAVON DE LUXE."

THE MOST LUXURIOUS SOAP MADE.

### COOK'S "HYGIENIC" TOOTH SOAP.

PREScribed BY THE LEADING DENTISTS.

## SPECIALITIES MADE FOR THE TRADE.

### COOK'S ANTISEPTIC SOAP

(THOMSON'S PATENT),

For Curing and Relieving ECZEMA, RINGWORM, and all Skin Affections.

Write for Testimonials to

**EDWARD COOK & CO., LONDON.**

ESTABLISHED OVER 100 YEARS.

[1]

The above Soaps can be obtained from Messrs. S. MAW, SON & THOMPSON, LONDON.

## GOLD MEDAL JAMAICA EXHIBITION.

A PURE AND PERFECT ARTICLE FOR  
Teeth, Gums, and Breath.



### TOOTH-POLISH

Will purify and beautify the Teeth with a pearly whiteness; polish the enamel; prevent tartar; destroy all living germs, and keep the mouth in a delicious condition of comfort, health, purity, and fragrance. Non-gritty, and absolutely pure and harmless to use. Price One Shilling, in handsome Enamel Box.

The POPULAR DENTIFRICE, which Sells at Sight,

Handsomely put up in Show-cases, as here shown. Printed in Twelve Colours. An ornament to any window.

Price 7/6 per dozen, of all Wholesale Houses.



The COURT CIRCULAR says:—"Puriline emanates from the laboratory of 'Bunter's Nervine' fame. Bunter's previous preparations for the teeth have received such high encomiums from medical men that it is not surprising that this latest production should have received the recognition and approval of those best qualified to pronounce on its merits."

H. M. STANLEY, D.O.L., LL.D., the great African explorer says:—"I use 'Puriline Tooth Polish and Wash'; am much pleased with both."

The Countess of ROSSLYN writes:—"Have been recommended to use your Dentifrice, called 'Puriline.' It is extremely nice; please send me six more."

Show-cards and Handbills supplied by

**A. WILSON, 422 Clapham Road, LONDON, S.W.**  
Proprietor of "Bunter's Nervine," "Dentine,"  
and "Puriline."

PARIS EXHIBITION, 1889.

## PRIZE MEDAL AWARDED TO



# "SALVO PETROLIA"

Absolutely Genuine Paraffinum Molle of the very Purest Form, and we claim that it is superior to Vaseline.

Manufactured by the Proprietors in Five distinct qualities—

**WHITE, LEMON, YELLOW, GOLDEN, AND VETERINARY.**

PACKED IN TINS, 1, 5, 10, 14, 28, 56, and 112 lbs.—Also in 3-cwt. casks.

Samples and Prices on application.

## "EDIBLE SALVO PETROLIA,"

For Public Speakers, Actors, and Singers.  
1s. 6d. per Tube.

## "OLEUM DEELINA"

(REGISTERED).

Universally adopted by the Medical Profession for  
**OPHTHALMIA, SCURVY, RINGWORM, ECZEMA,  
AND ALL SKIN-DISEASES.**

For External and Internal Irritation of every kind.

PACKED IN CASES—  
One Doz. 1s. 6d. Bottles; One Doz. 2s. 6d. Bottles.

Pint Bottles, 4s. 6d. each, less Trade Discounts.

For Hospital and Dispensary purposes in larger quantities.

TESTIMONIALS MAY BE HAD UPON APPLICATION.

The above are Manufactured Solely by the Proprietors,

## THE DEE OIL COMPY. LIMITED.

Works—SALTNEY, CHESTER.  
LONDON OFFICES—

**49 LIME STREET, E.C.**

Liverpool, Dublin, Manchester, Glasgow, Hull, Cardiff,  
Bristol, Belfast, Barrow-in-Furness, Nottingham,  
Paris, Hamburg, &c.

THE PUBLIC HAVE ALREADY TAKEN THIS UP. AND  
IT IS "GOING" SPLENDIDLY.

# ASPINALL'S NEIGELINE

(Inventor of "ASPINALL'S ENAMEL")

An absolutely non-poisonous, wonderfully refreshing, health-giving preparation for the skin. *NOT* a cosmetic.

MAKES THE OLD YOUNG!  
THE YOUNG YOUNGER!!

## IMPORTANT TO CHEMISTS.

Selling price, **3/6** per bottle.

I WILL DELIVER YOU, CARRIAGE PAID,

**6 Bottles** on receipt of P.O.O. for **15/6**,  
GIVING YOU A PROFIT OF **5/6** ON THE TRANSACTION.

OR I WILL DELIVER YOU, CARRIAGE PAID,

**12 Bottles** on receipt of cheque for **30/-**,  
GIVING YOU A PROFIT OF **12/-** ON THE TRANSACTION.

~~~~~  
BUY NOW, AND GET YOUR PROFIT BEFORE THE CUTTING BEGINS; THAT  
ALWAYS FOLLOWS AN ADVERTISED ARTICLE.

"ASPINALL'S NEIGELINE" will be largely advertised.

~~~~~  
ONLY ADDRESS—

**EDWARD ASPINALL,** Gresse Street Works,  
RATHBONE PLACE, **LONDON, W.**

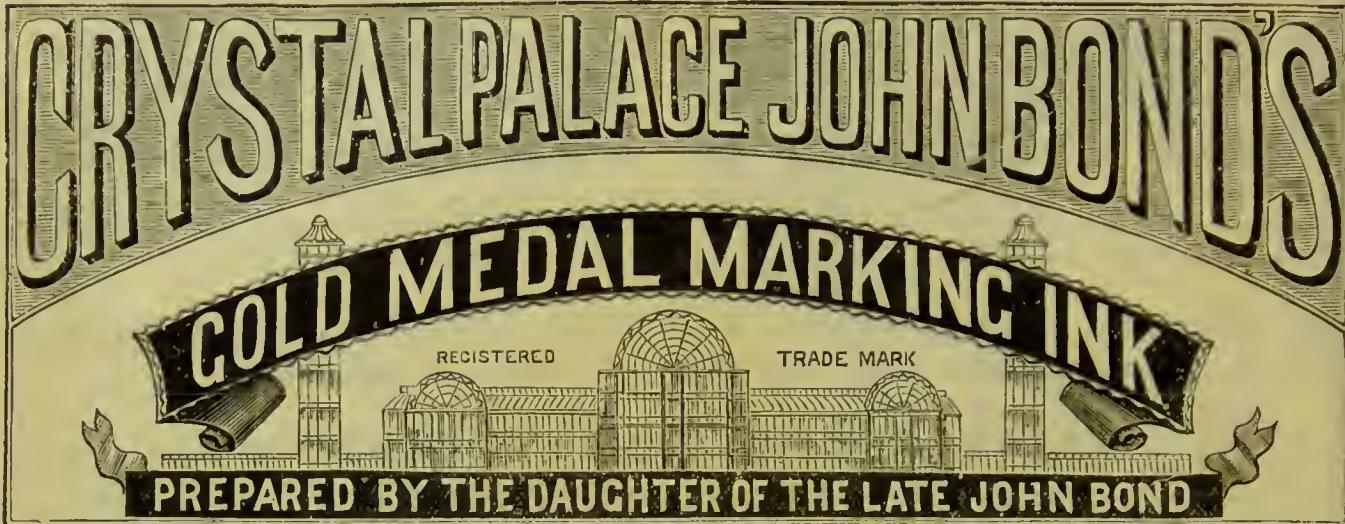
# GIVEN AWAY—YOUR RUBBER STAMP

NAME IN FULL OR MONOGRAM FOR MARKING LINEN OR STAMPING PAPER.

Voucher enclosed with every 6d. and 1s. Bottle, entitling Purchaser to above.

## FORTY FOUR GOLD MEDALS GRAND DIPLOMAS & CERTIFICATES

AWARDED THE ORIGINAL AND GENUINE



"THE MARKING INK OF THE WORLD." THE CHEAPEST, BEST, & MOST SALEABLE ARTICLE IN THE MARKET.

### IMPORTANT NOTICE TO THE TRADE.

We are receiving continual complaints of other Inks

substituted. When ordering, please state clearly as above. Chemists, increase your sales by displaying in window and counter.

### EXTRAORDINARY SUCCESS OF RUBBER STAMP GIFT

WHOLESALE PRICES NET.

6d.

30s.  
gross.



1s.

60s.  
gross.

Crystal Palace John Bond's (Daughter's) Marking Ink.

WHOLESALE PRICES NET.

6d.

20s.  
gross.



1s.

40s.  
gross.

John Bond & Co's Imperial Institute Marking Ink.

### YOUR RUBBER STAMP MOUNTED WITH NAME OR MONOGRAM FREE

WRITE FOR NEW ILLUSTRATED PRICE LIST.

CHEMISTS AND DRUGGISTS PUBLISHING LISTS ARE INVITED TO SEND PARTICULARS, AS OUR DESIRE IS TO ASSIST IN EVERY WAY POSSIBLE.

### CAUTION IN ORDERING THROUGH THE WHOLESALE.

Please state Crystal Palace John Bond's (Daughter's) Ink is required, and kindly examine each parcel received, as complaints are daily made of imitations being substituted. The Trade are invited to give all particulars where so deceived. Blue Wrapped Inks, 1s. and 6d., in 1-doz. boxes. Pedestals, Ink, Pen, and Linen Stretcher, 36s. and 72s. per gross respectively. A Glass-stoppered Bottle of Marking Ink, three times the size of an ordinary 1s. bottle, and Glass Linen Marker, complete, 1s. 6d.; 90s. per gross. Marking Ink Cabinets, 90s. per gross. 1s. Bijou Marking Ink Cabinets, 72s. per gross.

**UNBREAKABLE CEMENT** 3d. and 6d. per Bottle. Unrivalled for Mending China, Glass, Wood, &c. Handsomely got up in attractive and artistically covered Boxes. Wholesale price, 18s. and 30s. per gross. N.B.—A Special Discount to Large Buyers.

**WORKS AND OFFICES, 75, SOUTHGATE ROAD, LONDON. N.**

cheapest House in the World for every description of Rubber Stamp. Send for quotation before placing order elsewhere.

**G. B. KENT & SONS,**

STRICTLY WHOLESALE.

GOLD  
MEDAL,



PARIS,  
1889.



Showcase at present in ANTWERP EXHIBITION.

CATALOGUES ON APPLICATION.

**ENGLISH BRUSSES.**

# G. B. KENT & SONS'



**STIFFNESSES OF BRISTLE.** All the Best Quality Tooth Brushes are stamped in the neck with the number of the pattern, and with a letter underneath to denote the stiffness, as follows:—

XH designates Extra Hard.	MS designates Medium Soft.	VS designates Very Soft.
H " Hard.	S " Soft.	GH " Goat Hair.
M " Medium.	Y " Yellow.	BH " Best Badger Hair.

Union " Union Badger.

**STAMPING.**

Are stamped with Name and Address gratis on orders of One Gross and upwards; or the following Trade Mark:—

*G B Kent & Sons - D - London*

**PRICES OF G. B. KENT & SONS'**

## SELECTED "BEST" QUALITY TOOTH BRUSHES.

EACH BRUSH GUARANTEED PERFECT AND MANUFACTURED ON THE PREMISES.

TITLE	DESCRIPTION	3 ROW		4 ROW		5 ROW	
		CHILD'S	ADULT'S	LADIES'	GENTS'	PALATE	GENTS'
THE BEST	G. B. KENT & SONS' "Best" Quality	4/8	5/6	6/8	6/6	6/6	8/
"	In Best Selected Badger Hair	7/	9/	12/	12/	—	15/
"	In Extra Hard or Yellow Bristles	—	—	—	7/	7/	8/6
" NOVELTY "	Extra secure	5/	6/	7/	7/	7/	8/6
QUAINT PATTERNS	No. 85. The King Dick	—	—	—	7/	—	—
"	" 99. As illustrated	5/	6/	7/	7/	—	8/6
"	" 90. 90.2 90.3 90.4	—	6/6	—	—	—	—
"	In Extra Hard or Yellow, Nos. 85 and 99	5/6	6/6	7/6	7/6	—	9/
EXTRA PATTERNS	No. 131. The "Perfect Combination"	—	—	7/6	7/6	—	9/
DOUBLE BRUSHES	No. 134. The Tooth and Palate Brush	—	8/6	—	10/	—	—
"	" 135. The Tooth and Sponge on Handle	—	—	—	9/	—	—
"	The Sponge only on Bone Handle	—	—	—	6/6	—	—
IVORY	Ivory Tooth Brushes (see special Ivory List)	18/	21/	24/	30/	—	42/
"	Refilling Ivory Tooth Brushes	—	—	—	3/	—	—
IMPROVEMENT	<i>Under Dr. Maury's Patent Improvement, 6d. per dozen extra on all the above.</i>						

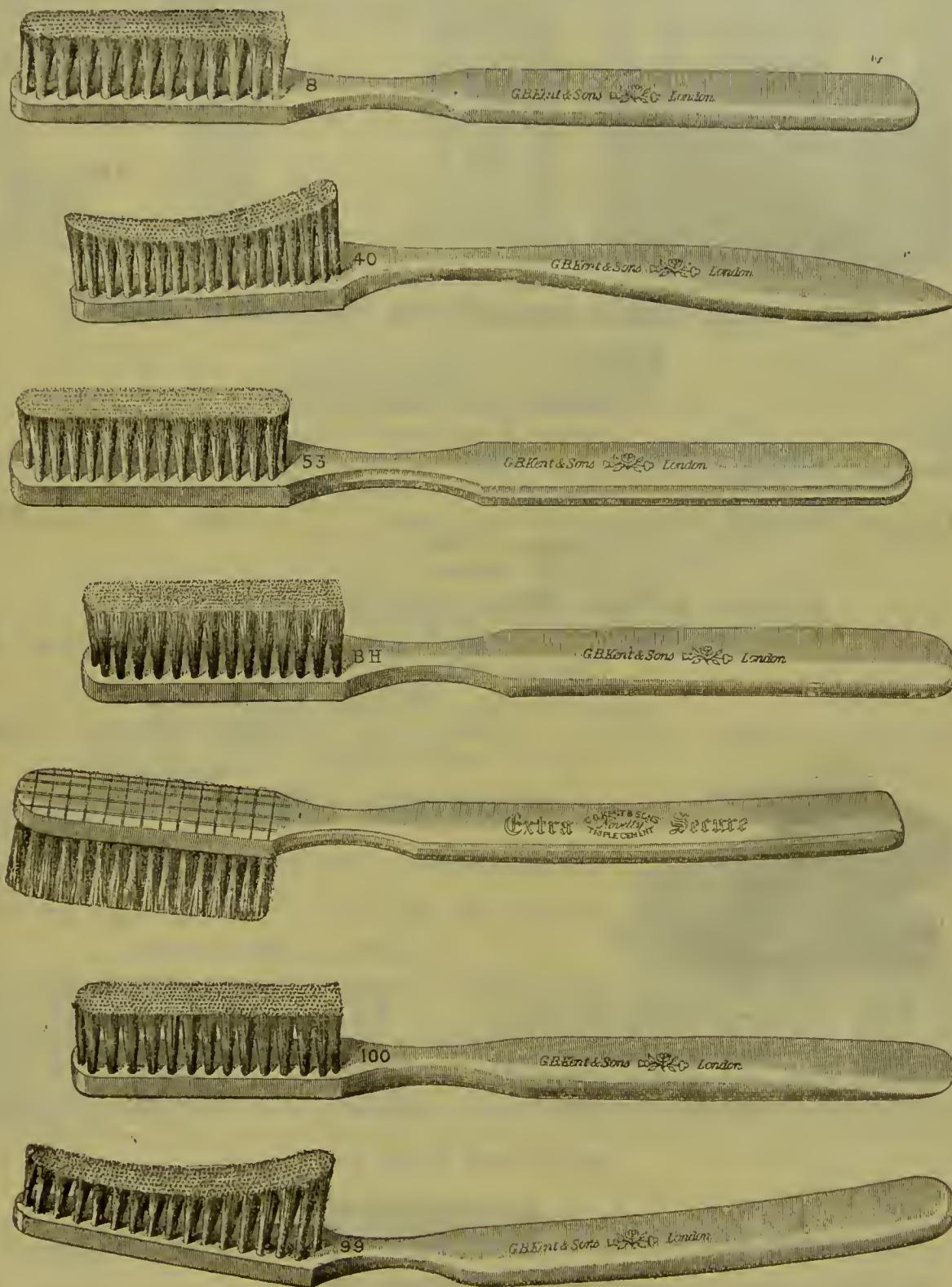
All the above are G. B. KENT & SONS' "Waxed Backed" "Wire Drawn" Cemented Tooth Brushes in their Selected Best Quality.

*It is requested that all orders be permitted to be executed "assorted" as to patterns and strengths, which avoids delay and gives a good selection.*

## TOOTH BRUSHES.

# G. B. KENT & SONS'

## ILLUSTRATIONS OF TOOTH BRUSHES.



*The above represent only a few of the special drawings contained in G. B. Kent & Sons' Specially Illustrated Tooth Brush Catalogue, which contains 72 designs, and which will be forwarded by post on application.*

## TOOTH BRUSHES.

# G. B. KENT & SONS'



## NEW DRY PLATE DUSTER.

1/4 plate.....	$3\frac{1}{2}$ inch .....	10s. per doz.
1/2 , , , , ,	5 , , , , ,	12s. , ,
1/1 , , , , ,	7 , , , , ,	16s. , ,

Red silk plush, each in a separate cardboard box.

## THE NEW FILM NEGATIVE STORAGE ALBUM.



(ENTERED AT STATIONERS' HALL).

Containing 100 envelopes numbered and indexed for storing negatives, either on flat celluloid film, or the Eastman rollable film.

1/4 plate.....	18s.	$5 \times 4$ .....	24s.	1/2 plate or $7 \times 5$ .....	30s.	$7\frac{1}{2} \times 5$ .....	36s.
1/1 plate.....	42s. per doz.						

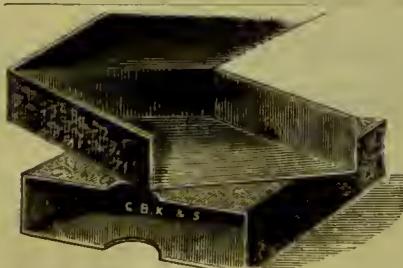
## LIGHT TIGHT FILM STORAGE ALBUMS.

For carrying sensitive films both before and after exposure. By far the simplest method for the film-using tourist.

### PRICES TO HOLD 50.

1/4 plate.....	15s.	1/2 plate.....	25s.	$5 \times 4$ .....	20s.	$7\frac{1}{2} \times 5$ .....	30s.
1/1 plate.....	35s. per doz.						

## NEGATIVE STORING BOXES.



For holding negatives, either glass or film, each in an envelope.

1/4 plate...5s. 6d. per doz. 1/2 plate...9s. per doz.

1/1 plate.....15s. per doz.

12 printed indestructible envelopes in each box.

## NEGATIVE STORAGE ENVELOPES.

Printed with spaces for exposure and development notes.

1/4 plate.....	13s. 6d.	1/2 plate.....	22s.	1/1 plate.....	38s. per 1,000.
----------------	----------	----------------	------	----------------	-----------------

Kent's Dark Room Pin.

Fac-simile of label.

4s. 6d. per dozen boxes.



Actual size of Pin.

4s. 6d. per dozen boxes.

**1 Dozen Price 6d.**  
INVALUABLE FOR PINNING UP  
BROMIDE PAPER,  
FILM NEGATIVES,  
&c &c. &c.

## PHOTOGRAPHIC NOVELTIES.

# S. V. METH.

REDUCED PRICES.

JONES & COMPANY,

Copperfield Road, London, E.

LARGEST MAKERS IN THE KINGDOM.

Telegrams—  
“PINCHIN LONDON.”

ESTABLISHED

Telephone No. 2241.



1834.

REGISTERED

# PINCHIN, JOHNSON & CO.’S TRADE LIST OF COLOURS, OILS, VARNISHES, JAPANS, CHEMICALS, &c.

**CHEMISTS** are invited to peruse the following List and favour us with an inquiry, as we can offer them special advantages.

\* Means original packages free.

## COLOURS—Dry.

### BLACKS—

Blue Blaek	...	...	...	...	per ewt.
Carbon Black	...	...	...	...	per lb.
Drop Ivory Black	...	...	...	...	per cwt.
Ivory Black	...	...	...	...	"
*Lamp Black, 1-ewt. Casks	...	...	...	...	"
" paekets	...	...	...	...	
Vegetable Blaek	...	...	...	per 7 lb. brl.	
" paekets	...	...	...	per lb.	

### BLUES—

Celestial	...	...	...	...	per cwt.
Chinese	...	...	...	...	per lb.
Cobalt	...	...	...	...	"
Lime	...	...	...	...	per ewt.
Prussian	...	...	...	...	per lb.
Ultramarine, Pure	...	...	...	...	per cwt.
" No. 1	...	...	...	...	"
" No. 2	...	...	...	..."	

### BROWNS—

Bismarck	...	...	...	...	per lb.
Choeolate	...	...	...	...	per ewt.
*Purple, Light, Middle, Deep	...	...	5 ewt.	...	
*" Washed, same shades	...	...	}"	...	"
*Spanish, 3-cwt. Casks	...	...	..."	..."	
Vandyke	...	...	..."	..."	

### CHROMES—

Lemon, Pure, No. 1, No. 2	...	...	...	...	per cwt.
Middle	"	"	"	..."	
Orange	"	"	"	..."	

### GREENS—

Braganza, 3 shades	...	...	...	...	per cwt.
Brunswick	"	..."	..."	..."	"
Bronze	"	..."	..."	..."	"
Chrome	"	..."	..."	..."	"

### GREENS—cont.

Emerald	...	...	...	...	...	per lb.
" tint	...	...	...	...	...	per cwt.
Engine	...	...	...	...	...	"
Mineral	...	...	...	...	...	per lb.
Quaker, 3 shades	...	...	...	...	...	per ewt.
Saxon	...	...	...	...	...	"

### LAKES—

Carmine	...	...	...	...	...	per lb.
Crimson	...	...	...	...	...	"
Madder	...	...	...	...	...	"
Purple	...	...	...	...	...	"
Searlet	...	...	...	...	...	"
Victoria	...	...	...	...	...	"

### OCHRES—

*Brown, 2-ewt. Casks	...	...	...	...	per cwt.
Burnt	...	...	...	...	"
Oxford	...	...	...	...	"
*Red, 2-ewt. Casks	...	...	...	...	"
*Yellow	..."	..."	..."	..."	"
" washed	..."	..."	..."	..."	"

### PINKS—

Dutch	...	...	...	...	...	per cwt.
Rose	..."	..."	..."	..."	..."	"

### REDS—

Chinese	...	...	...	...	...	per cwt.
Indian	...	...	...	...	...	"
Oxide, 3 shades	...	...	...	...	...	"
Persian	...	...	...	...	...	"
Royal	..."	..."	..."	..."	..."	per lb.
Signal	..."	..."	..."	..."	..."	"

### \*Venetian, 3-ewt. Casks

Vermilion, Deep or Pale	...	...	...	...	per lb.
Vermilionette, all shades	...	...	...	...	per ewt.

### SIENNALS—

Burnt	...	...	...	...	per ewt.
Raw	..."	..."	..."	..."	"

COLOURS (DRY)—cont.						
<b>UMBERS—</b>						
*English, Raw, 2-cwt. Casks	...	...	per cwt.	Indian	...	...
" Burnt "	...	...	"	Signal	...	...
Turkey, Raw	...	...	"	Venetian	...	...
" Burnt	...	...	"	<b>SIENNAS—</b>		
<b>*WHITE LEAD</b> , genuine 8-cwt. Casks	...	per cwt.	Burnt	...	...	per cwt.
" No. 1	...	"	Raw	...	...	"
" No. 2	...	"	<b>UMBERS</b>			per cwt.
" No. 3	...	"	Burnt English	...	...	"
<b>*WHITE ZINC</b> , genuine, 2-cwt. Casks	...	per cwt.	Raw	...	...	"
" No. 1	...	"	Burnt Turkey	...	...	"
" No. 2	...	"	Raw	...	...	"
" No. 3	...	"	<b>SPECIALITIES FOR SHIPS—</b>			per cwt.
<b>WHITES—</b>						
Flake White	...	...	Mast Colour	...	...	"
Kremnitz White in blocks	...	per cwt.	Teak Colour	...	...	"
Whiting, Lump	...	per ton	Chocolate Colour	...	...	"
" Powdered	...	"	Peacock Colour	...	...	"
Barytes (Sulphate)	...	"	Boot Topping Colour	...	...	"
" 2nd quality	...	"	Lead Colour	...	...	"
<b>MISCELLANEOUS—</b>			Slate Colour	...	...	"
*Red Lead, genuine, ex. bright, 5-cwt. Cks.	...	per cwt.	<b>SUNDRIES—</b>			per cwt.
" No. 1	...	"	Patent Dryers	...	...	"
*Orange Lead	...	"	Putty	...	...	"
Litharge, Flake	...	"	<b>HIGH-CLASS ART ENAMELS—</b>			per cwt.
" Powdered	...	"	These Enamels are elegantly put up, and will be found to command a ready sale on account of their superior quality, and brilliant quick-drying properties.			"
Ruddles, Blue	...	"	All shades kept in stock.			"
" Red in bars	...	"	Small, ; Medium, ; Large Tins,			per doz.
" Yellow	...	"	<b>READY-MIXED PAINTS—</b>			per cwt.
<b>COLOURS—Ground in Oil.</b>						
<b>WHITE LEAD</b> , genuine	...	per cwt.	Hard-drying, lustrous, and durable.			"
" No. 1	...	"	In 1, 2, 4, 7-lb. tins free	...	...	per cwt.
" No. 2	...	"	<b>COLOURS—Ground in Water.</b>			per cwt.
" No. 3	...	"	Burnt Sienna	...	...	"
<b>WHITE ZINC</b> , genuine	...	per cwt.	Raw	...	...	"
" No. 1	...	"	Burnt Turkey UMBER	...	...	"
" No. 2	...	"	Raw	...	...	"
" No. 3	...	"	Damp Lake	...	...	per lb.
<b>BLACKS—</b>			Dutch Pink	...	...	per cwt.
Black Paint, Best	...	per cwt.	Vandyke Brown	...	...	"
No. 1	...	"	<i>Other Colours to order.</i>			"
<b>BLUES—</b>			<b>COLOURS—Ground in Turps.</b>			per cwt.
Blue Paint	...	per cwt.	Drop Ivory Black	...	...	"
Prussian Blue	...	per lb.	Dutch Pink	...	...	"
<b>BROWNS—</b>			Lemon Chrome	...	...	per lb.
Purple, all shades	...	per cwt.	Mineral Green	...	...	"
Spanish	...	"	Oxford Ochre	...	...	per cwt.
Vandyke	...	"	Prussian Blue	...	...	per lb.
<b>CHROMES—</b>			Zinc White	...	...	per cwt.
Lemon, Best, No. 1, No. 2	...	per cwt.	<i>Other Colours to order.</i>			"
Middle	..."	"	<b>OILS.</b>			per gal.
Orange	..."	"	<b>BURNING—</b>			per gal.
<b>GREENS—</b>			Colza, genuine	...	...	"
Boat	...	per cwt.	" No. 1	...	...	"
Braganza, 3 shades	...	"	Mineral Colza or Sperm	...	...	"
Brunswick	..."	"	Kerosene, Water White	...	...	"
Bronze	..."	"	Petroleum, American	...	...	"
Chrome	..."	"	" Russian	...	...	"
Emerald	...	"	<b>LUBRICATING—</b>			per gal.
Engine, 3 shades	...	"	Sperm, Best	...	...	"
Saxon	...	"	" Arctic	...	...	"
Varnish	...	per lb.	Lard, Pure	...	...	"
<b>OCHRES—</b>			Castor, Pure	...	...	"
Brown	...	per cwt.	Neatsfoot	...	...	"
Oxford	...	"	Olive, Gallipoli	...	...	"
Spruce	...	"	Refined Rape	...	...	"
Stone	...	"				"

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23 BILLITER STREET, LONDON, E.C.

**LUBRICATING OILS—continued.**

Rangoon	... ... ... ...	per gal.
" Perfect " Engine, specially blended for Steamers	... ... ...	"
Gas Engine	... ... ...	"
No. 1 Engine	... ... ...	"
" Perfect " Cylinder and Valve	... ...	"
Heavy Cylinder, Dark No. 1	... ...	"
" " " No. 2	... ...	"
Pale Mineral, No. 1	... ...	"
" " No. 2	... ...	"
" " No. 3	... ...	"
Spindle	... ...	"
Cleaning, Chain,		
<b>PAINT</b>		
Linseed, genuine Raw	... ...	per gal.
" old tanked, Baltic	... ...	"
" Refined	... ...	"
" Boiled	... ...	"
" No. 1	... ...	"
" Double Boiled	... ...	"
" Pale	... ...	"
Resin Oil, Sweet Pale	... ...	per cwt.
" No. 1	... ...	"
Turpentine, genuine American	... ...	per gal.
" Russian	... ...	"
<b>MISCELLANEOUS</b>		
Cod	... ... ...	per gal.
Cotton, Refined	... ... ...	"
Lucca Sublime	... ... ...	"
Nut	... ... ...	"
Sesame	... ... ...	"
Sweetbriar	... ... ...	"
Bloomless, Neutral	... ... ...	per cwt.
" " No. 1	... ... ...	"
Brown Rape	... ... ...	"
Seal	... ... ...	per gal.
Southern	... ... ...	"
<b>GREASES</b>		
Solidified Oil	... ... ...	per cwt.
Russian Tallow, P.Y.C.	... ... ...	"
Tallow, Mutton	... ... ...	"
" Beef	... ... ...	"
Antifriction	... ... ...	"
Wire Rope	... ... ...	"
Railway	... ... ...	"
Resin	... ... ...	"
Cart	... ... ...	"
Glycerine	... ... ...	"

**CARRIAGE VARNISHES.****FINEST DURABLE BODY**

For finishing coats on carriage bodies where greatest durability is required...

**MEDIUM BODY**

For same purpose, but quicker drying than above ... ... ...

**FINEST HARD DRYING BODY**

Quicker and harder than our Medium Body Varnish. For finishing coat on hurried work ... ... ...

**BEST PALE CARRIAGE**

For last coat on carriage wheels and underparts. Is very pale, elastic, and durable ... ... ...

**ELASTIC PALE CARRIAGE**

For same purpose as above, but quicker drying ... ... ...

<b>UNDERCOATING OR FLATTING</b>	—	
Pale, for undercoats on finest work	...	per gal.
<b>NO. 1 FLATTING</b>	—	
Same as above, but darker in colour	...	per gal.
<b>BEST BLACK JAPAN</b>	—	
A jet black varnish, flows and rubs well	...	per gal.
<b>GOLD SIZE JAPAN</b>	—	
Pale, for binding, drying, and hardening colours	...	per gal.
Dark, for binding, drying, and hardening colours	...	"
<b>COACHMAKERS' LIQUID DRYER</b>	—	
A very powerful dryer for dark colours...	...	per gal.
<b>BEST ENAMEL JAPAN</b>	—	
To restore leather carriage tops and aprons	...	per gal.
<b>AIR DRYING BLACK</b>	—	
For wooden and iron parts of carriages	...	per gal.
<b>DECORATORS' VARNISHES.</b>		
<b>EXTERIOR ELASTICA FINISH.—Specialty.</b>		
For finishing front doors and all classes of house work exposed to the weather, where greatest durability is requisite. Is also adapted for use on steamships, yachts, boats, &c., as it effectually resists the action of either fresh or salt water. Dries free from dust in 10 to 12 hours, and hardens sufficiently in about 5 days to admit of being rubbed. Possesses the maximum elasticity attainable in any Finish or Varnish. Produces a beautiful lustre over natural, painted, or grained woods, which may be cut down with pumice-stone and water to dull finish. Does not scratch or mar white, and resists atmospheric influences better than any Varnish or Finish in use for the purpose ...	...	per gal.
<b>INTERIOR ELASTICA FINISH.—Specialty.</b>		
Especially adapted for hallways, bath-rooms, dining-rooms, kitchens, floors, bar-fixtures, and general inside house-work requiring a finish of extreme durability. Produces a beautiful lustre over natural, painted, or grained woods, and by cutting down with pumice-stone and water a smooth dull finish is obtained. Dries free from dust in 7 to 9 hours, and hardens sufficiently to admit of being rubbed in about 3 days. Is very elastic, and will not scratch or mar white ...	...	per gal.
<b>WHITE OIL VARNISH</b>		
A white varnish which will not discolour the most delicate tints. Very elastic and durable ...	...	per gal.
<b>BEST OUTSIDE COPAL VARNISH</b>		
Of wonderful lustre and very durable ...	...	per gal.
<b>ELASTIC PALE OAK VARNISH</b>		
Very pale, quick drying, and durable. Will stand outside ...	...	per gal.
<b>SUPERFINE OAK VARNISH</b>		
Pale, and quick drying; of good body ...	...	per gal.
<b>FINE OAK VARNISH</b>		
Pale, and quick drying; of good body ...	...	per gal.
No charge made for 1-gallon Varnish Cans.		

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**DECORATORS' VARNISHES—cont.****BEST WHITE CRYSTAL VARNISH—**

Water white, for paper and white enamel work ... ... ... per gal.

**CRYSTAL PAPER VARNISH—**

For same purpose as White Crystal, but not so white ... ... ... per gal.

**NO. 1 PALE LIQUID DRYER—Specialty.**

For Drying delicate colours ... ... ... per gal.

**NO. 1 BROWN LIQUID DRYER—Specialty.**

A very powerful drier for dark colours and linseed oil ... ... ... per gal.

**TEREBENE—**

A powerful liquid dryer ... ... ... per gal.

**MISCELLANEOUS VARNISHES.****GOLD PAINT LIQUID—**

For mixing with bronze powders ... ... ... per gal.

**No. 1 HERCULES LIQUID DRYER—**

The most powerful Liquid Dryer in the market; especially adapted for drying oils and paints. It will dry raw linseed oil effectively when mixed in proportions of 1 to 40 ... ... ... per gal.

**No. 2 HERCULES LIQUID DRYER—**

Same as above, but contains benzine ... ... ... per gal.

**PALE PAINT GRINDERS' MIXING VARNISH** ... ... ... per gal.**No. 1 Ditto** ... ... ... per gal.**SPECIAL STANDARD POLISH** for renovating varnished work ... per gal.

*No charge made for 1-gallon Varnish Cans.*

**VARNISHES, STAINS, &c.**

Turpentine Varnish	... ... ...	per gal.
Pine	... ... ...	"
Bright	... ... ...	"
Imperial Black	... ... ...	"
White Hard	... ... ...	"
Brown Hard	... ... ...	"
French Polish	... ... ...	"
White "	... ... ...	"
Map	... ... ...	"
Label	... ... ...	"
Ebony	... ... ...	"
Leather, Black or White	... ... ...	"
Bookbinders'	... ... ...	"
Basket, Ebony or Yellow	... ... ...	"
Methylated Finish	... ... ...	"
Brunswick Black	... ... ...	"
Knotting	... ... ...	"
Oak Stain	... ... ...	"
Mahogany Stain	... ... ...	"
Walnut Stain	... ... ...	"
Satin Stain	... ... ...	"
Ebony Stain	... ... ...	"
Patent Glaze	... ... ...	"

**CHEMICALS.**

Acid, Citric, Crystals and Powdered	... ...	per lb.
" Tartaric	... ...	"
" Muriatic, 4 x 28-lb. bottles	... ...	per case.
" Nitric	... ...	per lb.
" Sulphuric, 4 x 42-lb. bottles	... ...	per case.
" Oxalic	... ...	per lb.
Acetate of Lead, White	... ...	per cwt.
" " Grey	... ...	"

Alum, Lump	... ... ...	per cwt.
" Powdered	... ... ...	"
Ammonia Carb.	... ... ...	per lb.
Ashes, Pearl, American	... ... ...	per cwt.
" German	... ... ...	"
" Pot	... ... ...	"
Bleaching Powder, 35%	... ... ...	"
Borax, Lump	... ... ...	"
" Powdered	... ... ...	"
Copper Sulphate	... ... ...	"
" Agricultural	... ... ...	"
*Copperas, Green, 3-cwt. casks	... ... ...	"
Potash, Bichromate	... ... ...	per lb.
" Caustic, 1-cwt. drums	... ... ...	per cwt.
" Prussiate	... ... ...	per lb.
" Sulphate	... ... ...	per cwt.
Sal Ammoniac, Lump	... ... ...	"
" Crushed	... ... ...	"
Sal Prunella Cakes	... ... ...	"
Saltpetre	... ... ...	"
" Powdered	... ... ...	"
Soda, Ash	... ... ...	"
" Bicarbonate	... ... ...	"
" Caustic	... ... ...	"
" Crystals	... ... ...	per ton.
*Sulphur, Flowers, 2-cwt. barrels	... ... ...	per cwt.
" Rolled	... ... ...	"

**SUNDRIES.**

Camphor, Refined	... ... ...	per lb.
*Coal Tar—runlets	and barrels	
Cotton Waste, White	... ... ...	per cwt.
" Coloured	... ... ...	"
Emery Flour	... ... ...	"
Glycerine, s.g. 1260	... ... ...	"
Glues—		
Country	... ... ...	"
Fish	... ... ...	per gal.
French No. 1, 2	... ... ...	per cwt.
Scotch No. 1, 2	... ... ...	"
Town No. 1, 2	... ... ...	"
Gum, Arabic	... ... ...	per lb.
Benzoin	... ... ...	"
Honey	... ... ...	per cwt.
Ink	... ... ...	per gal.
Linseed, Crushed	... ... ...	per cwt.
Meal	... ... ...	"
Logwood Chips	... ... ...	"
Extract	... ... ...	"
Patent Size	... ... ...	per fkn.
Petrifying Liquid for damp walls	... ... ...	per gal.
Powdered Rottenstone	... ... ...	per cwt.
Pumice Stone, lump	... ... ...	"
powdered	... ... ...	"
*Resin—Barrels Nos. 1, 2, 3,		"
Mats	... ... ...	"
Rock Salt	... ... ...	"
Shellac	... ... ...	"
*Soft Soap	per firkin, and	1/2-firkin
"	in 2-lb. and 7-lb. tins	per cwt.
*Stockholm Tar, 1/2-barrels	and barrels	
Oil	... ... ...	per gal.
Pitch, casks and pkts.	... ... ...	per cwt.
Turmeric	... ... ...	"
Venice Turpentine	... ... ...	"
Wax—		
Best Gambia	... ... ...	per lb.
Earth	... ... ...	"
Jamaica	... ... ...	"
Japan	... ... ...	"
White	... ... ...	"

**PINCHIN, JOHNSON & CO.**  
23 BILLITER STREET, LONDON, E.C.

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For Stencilling, Pasting,  
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A SPECIAL BRUSH FOR INKING  
BOOT SOLE EDGES.

PRICE 2/- EACH.



Just what is wanted for  
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Hotels, Boarding Houses, &c.  
For MARKING CATTLE, SHEEP, and  
PIGS IT IS UNRIVALLED.  
Stencilling Ink, Red Marking Liquid  
and Electric Blacking supplied in Cans,  
from 3d. to 1/-.

Cap to Cover Brush, 3d. Extra.  
A SAMPLE BRUSH, with cover for brush end, will be forwarded on receipt of P.O., value 2/3, carriage free, by JOHN BLAKELY, Lady Lane, Leeds; or by the Sole Manufacturers, Inventors and Patentees,

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Used in the Royal Laundries.

Should be used in Every House.

The Greatest Boon ever offered to the Laundress for imparting an IVORY-FINISH to Starched Linen, Laces, &c. It does not stick to spider-web-like materials.



Once Tried, Always Wanted.

Makes Old Linen like New.

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To Mr. CRITCHLEY. Yours truly,  
E. ELDEB.

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Cabinet Varnishes, Polishes, Glaze, Finishing Spirit,  
Glues, Wood Stains, Gums, Resins Shellacs.

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**BLACKLEAD IN THE WORLD.**

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LIQUID.  
METAL POLISH

BOTTLES 6.1/2d.

Gives WITHOUT LABOUR a BEAUTIFUL, SOFT, BRILLIANT, and LASTING POLISH, entirely free from Scratches, to all kinds of Metal Articles, from the most delicate Gold and Silver Jewellery, to Doorposts, Shop Window Brasses, Harness, Milk Tins, &c.

Read the following:—Fire Brigade Established by the Hanwell Lighting Board. “We do all our work with your fluid as quick as with any other, and it retains its brilliant polish six times as long. Without it our men would be continually on duty cleaning our engines and appliances. It has less action on Metal than most cleaning compounds. All the Brigades that I have recommended it to are very pleased with it.”—W. ABBOTT, Senior Superintendent, Hanwell.

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For Bleaching Wool and all Fibres. For Metallurgy, &c.

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Prepared expressly for Okey's and other Knife Boards, Buff Leather Boards, and all the Patent Knife Cleaning Machines.  
Sold in Canisters with perforated Tops to prevent waste, at 1d., 2d., 3d., 6d., 1s., 2s. 6d., and 4s. each.

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For Cleaning and Polishing Silver, Plate Glass, Marble, &c. Tablets, 6d. each.

**OKEY'S "POLYBRILLIANT" (REGISTERED).**

A Magic Pomade for Cleaning Brass, Copper, Tin, Pewter, Britannia Metal, &c. Never becomes dry and hard like other Metal Paste.  
Tins, 1d., 2d., 3d., and 6d. each.

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ESSENCE OR FLUID EXTRACT OF  
(keeps good in all climates)

WELL KNOWN AS "A superior preparation that may always  
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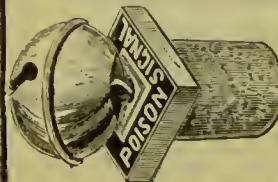
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tinkles when removed from the Bottle. All  
Chemists should adopt this Signal. The cost  
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Sundry Houses.



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A new refreshing and invigorating preparation which meets with a  
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CHEAPEST HOUSE FOR THE FOLLOWING:—

Pot. Bromide	Sugar of Milk
Do. Iodide	Acid Boracic
Do. Permanganate	Iodoform
S.V.R. in 40-gallon drums, pure tinned.	

## THE "MORSTADT" Cachets

Are the most digestible, flexible, and elegant in the market, and are  
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"MORSTADT" CACHET CLOSING APPARATUS, to easily and  
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SMALL APPARATUS, to fill and close 1 Cachet at a time, from 2/6 to 6/6.

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CHEAPEST SELLERS IN THE MARKET.

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Supplied in Original Bottles ready for  
Patient's use (stamped), to retail at 4/-  
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Time & Inst., from 18/-; Snap Shot, from 10/-; Focal  
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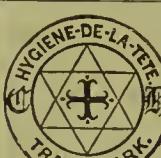
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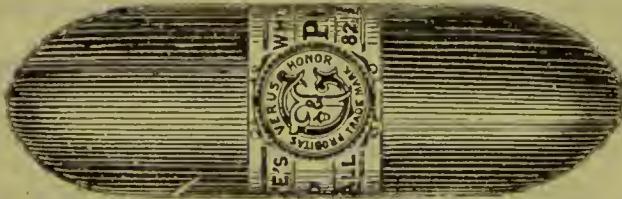
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Highest Award World's Fair, Chicago, and Four Gold Medals.

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CAUTION.—See you get the GREEN and YELLOW WRAPPER.**WALKER, TROKE & CO.**WHOLESALE DRUGGISTS,  
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The superior quality of Newsome's Absorbent Surgeons' Lint is universally admitted. The V.B. quality is quite pure and of great superficial area and exquisite softness. The C., D., E., and F. qualities are equally pure and absorbent; E. is stronger in fabric.

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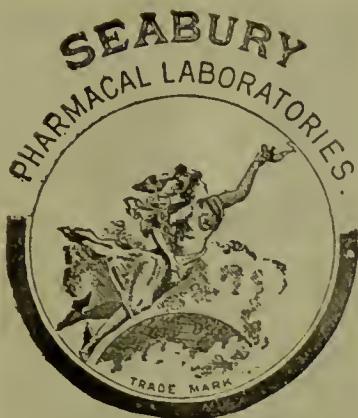
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Special attention is invited to our Descriptive Advertisements between pages 192 & 193 of this issue.

**NEW AND  
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**PURE  
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SPECIALLY MANUFACTURED FOR DOMESTIC USE.  
A most Saleable Sundry for Colonial Chemists.

All Colours, 1d., 3d., & 6d. each.

For twenty years these Dyes have kept the lead, care having been taken in their Manufacture, and nothing but Dyes of the very finest quality, and carefully mordanted, have been sent out. The consequence is that customers once buying are satisfied, find out their usefulness, and come again. Chemists who have been wise enough to keep up stock of Colours find a regular and steady Sale for them, from January to December.

The following copy of an order received from a Provincial Wholesale Druggist a short time ago speaks for itself:—

"Please to forward, immediately, 48 gross Penny Dyes as follows, \* \* \* \* \* \* \* \* \* Unfortunately I have a lot of Dyes in stock, which I was persuaded to buy because cheap, and which I find do not give the same satisfaction, which yours always do

Yours, &c."

Supplied by all the Wholesale Houses.

**E. CRAWSHAW & CO.**  
80 Fann St., Aldersgate St., London, E.C.

## BUNSEN'S BUTTER COLOURING.

A PURE OILY VEGETABLE EXTRACT,

*Manufactured on our own premises, and absolutely free from anything injurious.*

WITHOUT TASTE! WITHOUT SMELL!!  
HIGHLY CONCENTRATED!!!

DOES NOT COLOUR THE MILK!!!!



BUNSEN'S BUTTER COLOURING  
is an ideal Preparation for the purpose intended.  
No invention could possibly give greater satisfaction.  
The tint imparted to the Butter is perfect.

We are prepared to pack in any size Bottle, with  
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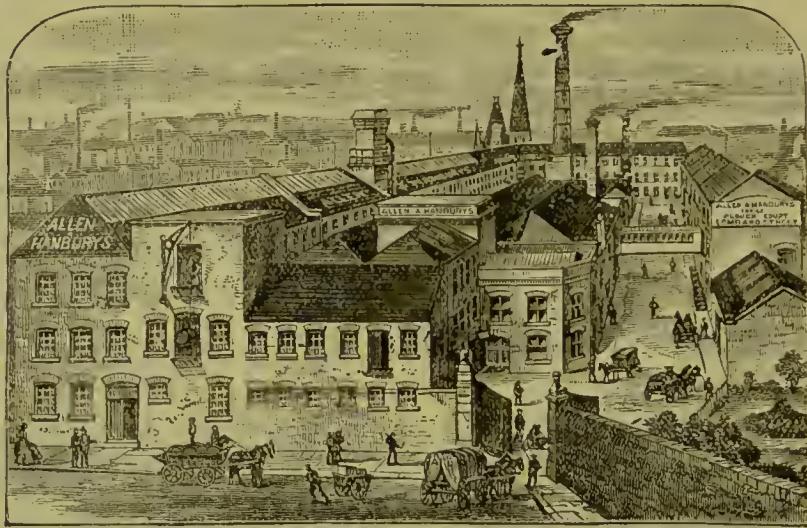
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Surgical  
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of every  
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and Medical  
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&c., &c.



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Cod-Liver Oil.  
Malt Extract  
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Tasteless  
Castor Oil.  
Soluble  
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Pills.  
Perles and  
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Improved  
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BYNO-CASCADA  
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BYNO-PANCREATIN  
BYNO-PEPSIN  
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CAPSULES (soluble gelatine)  
CASCADA (aperient wine)  
CASTOR OIL, Tasteless

CASTOR OIL, East Indian  
CASTOR OIL, finest Italian  
COD-LIVER OIL, the “Perfected”  
COD-LIVER OIL, finest Norwegian  
COD-LIVER OIL EMULSION  
EXTRACT OF MALT, ordinary thick,  
liquid, Powdered  
FOODS FOR INFANTS  
HOF-BYNIN  
HYPODERMS, compressed tabellæ for  
hypodermic or sublingual use  
JUJUBES and PASTILLES  
LOZENGES

MALT EXTRACT, in bulk  
MALT EXTRACT with cod-liver oil  
MEDICATED THROAT PASTILLES  
PALATABLE APERIENT  
PANCREATIC FERMENTS  
PASTILLES  
PEPTONISING POWDERS  
PESSARIES of improved form  
PILLS, soluble gelatine-coated  
SACCHARIN and its preparations  
SUPPOSITORIES of improved form  
TABELLÆ (compressed drugs)

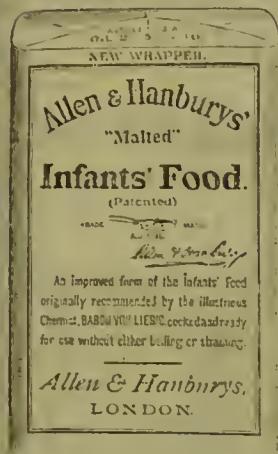
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"NO BETTER FOOD EXISTS." *London Medical Record*

# Allen & Hanburys' Infants' Food.

The LANCET, July 24, 1880, writes:  
**'IT IS EXCELLENT IN QUALITY AND FLAVOUR.'**

**THE PATENT MALTED FARINACEOUS FOOD**, prepared by ALLEN & HANBURYS, is the result of a practical application of the advice of LIEBIG, and the benefits accruing from its use verify in a remarkable manner his predictions of the value and efficacy of such a Food. It is a partially predigested food, having as a basis a carefully cooked wheaten flour, specially selected on account of the large amount of gluten contained in it. To this are added the active and nutritive constituents of pure malt in a soluble form. This food thus combines all the advantages of Malt foods hitherto introduced, and contains all that is valuable in Malt, whilst all that is irritating and indigestible is rejected. It, moreover, is not so entirely predigested as to leave nothing for the infant's stomach to perform, yet it is readily assimilated by the most feeble, the starch granules being thoroughly broken in the process of cooking, and rendered partially soluble by their subsequent admixture with the soluble portions of the Malt. Although a much more costly food to produce than that made by the more clumsy expedient of merely adding ground malt to baked flour, it is supplied to the public at prices, to say the least, not higher than those charged for such foods, and preference is readily given to it wherever a fair trial has been made.

**NOTE.**—It has been publicly stated that the use of Malt *Meal* in Malted Food is in accordance with Baron Liebig's direction. How far this is misleading a reference to his own words will show. In his well-known work on this subject, while giving instructions for the preparation of a Malted Food suited for Infants, he draws special attention to the danger of allowing Malt *Meal* to be present in any food administered to Infants, and in doing so uses the following emphatic language:—

"Malt finely powdered produces food causing diarrhoea. This originates from the sharp-pointed shafts of the Malt, which in pounding remain with the pounded malt, and affect the bowels of a child like fine needles."

It has also been stated that a Malted Food prepared with a Malt Extract is of less value than one made with Malt *Meal*, by reason of "the rejection of its cuticular portion." This statement is erroneous, for the "cuticular (or flinty) portion" is precisely that which Liebig describes as the "indigestible part which frequently produces irritation in the intestines and diarrhoea," and therefore it is with great advantage rejected in the preparation of the Malted Farinaceous Food. In fact, a perusal of all that the late Baron Liebig ever wrote on the use of Malt in the preparation of foods shows that he intended Malt Extract, and not Malt *Meal*, to be present in the Malted Food he advised to be given to Infants.

Several so-called Malt Foods have been offered to the public. These generally consist of a little ground Malt mixed with Flour or other farinaceous material, the Malt being in the objectionable condition pointed out by Liebig, and medical men will at once perceive the utter absurdity of the supposition that the Husk and Woody Fibre of the Malted Barley can be made assimilable in an infant's stomach by mechanical means.

The necessary inferiority of these Ground Malt Foods is, therefore, self-evident, and the steadily increasing demand for ALLEN & HANBURYS' Patent Malted Food proves that the profession and the public alike appreciate the practical result of the application of the principles upon which it is manufactured.

**The BRITISH MEDICAL JOURNAL** writes:—"The result of Dr. Warner's trials at the East London Hospital for Children was decidedly satisfactory. Delicate children have, in many instances, improved under its use; infants who have thriven under its use fell off when it was discontinued, and it was generally liked by the children to whom it was given. In two large 'crèches' the food has been found very successful; in more than one instance the children who had been subject to sickness being freed from it by the use of MESSRS. ALLEN & HANBURYS' Food. The food may be prepared either for infants or for invalids, according to the directions given; and will be found very effective, digestible, nutritious, and palatable, wherever it be tried."

**Dr. TRESTRAIL** writes:—"GENTLEMEN,—I have much pleasure in being able to report most favourably upon your 'Malted Food,' as my child, after being at death's door for weeks, from exhaustion, consequent upon severe diarrhoea, and inability to retain any form of 'Infants' Food,' or Milk, began to improve immediately he took your malted preparation, and I have never seen an infant increase in weight so rapidly as he has since done.—I am, Gentlemen, yours faithfully,

"H. ERNEST TRESTRAIL, F.R.C.S., M.R.C.P.

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**Mrs. HILTON** writes:—

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8 ,	10 grs.	99/-	102 Cubeb Oil	5 min.	52/-
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54 ,	" = Ext. Cascara		164 ,	2 grs.	15/-
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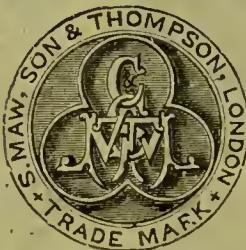
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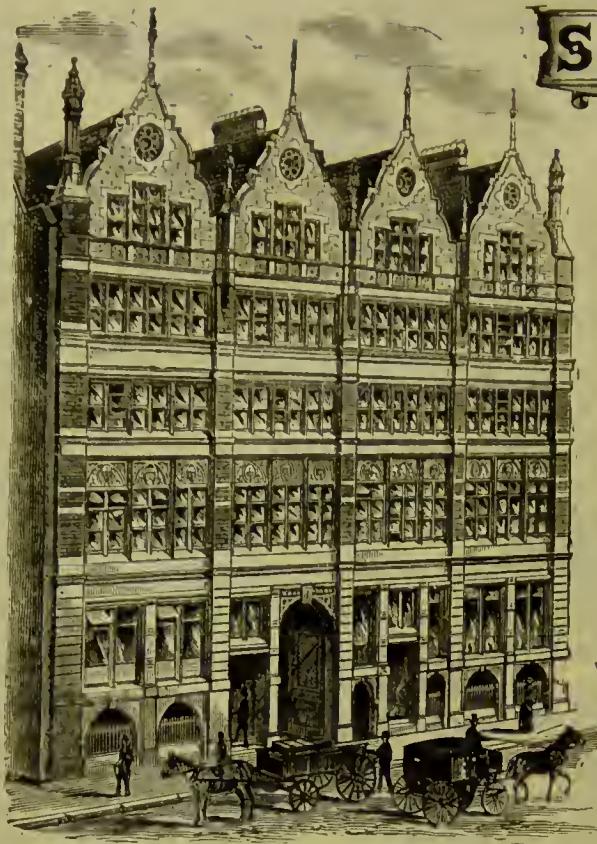
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" Greenhalgh, Bolton.  
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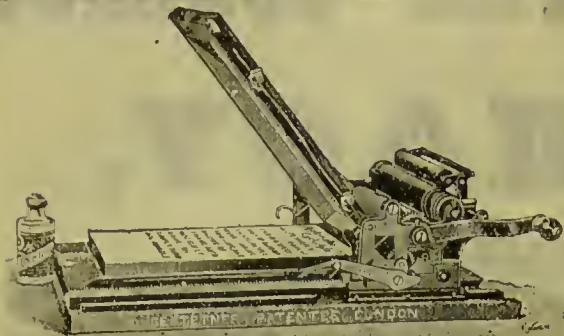
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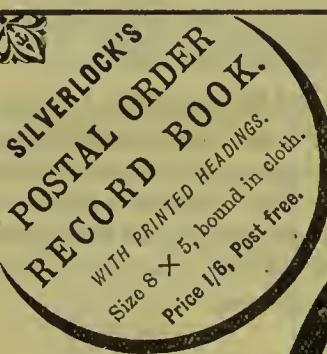
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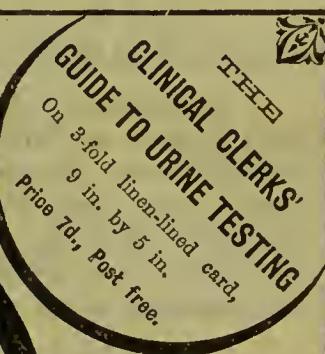
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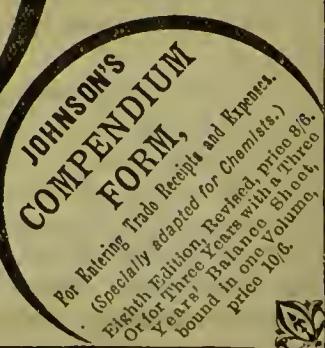
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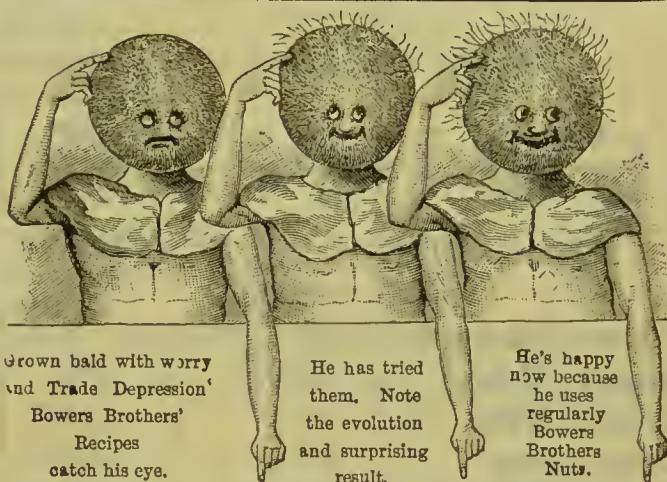
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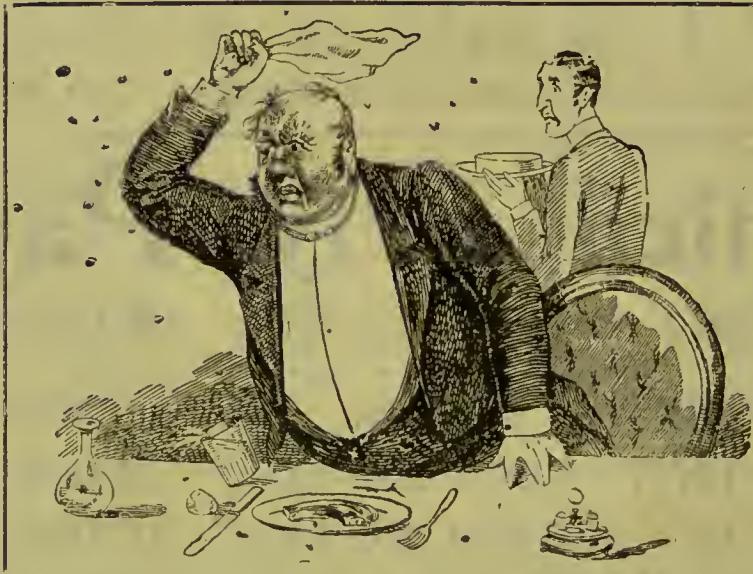
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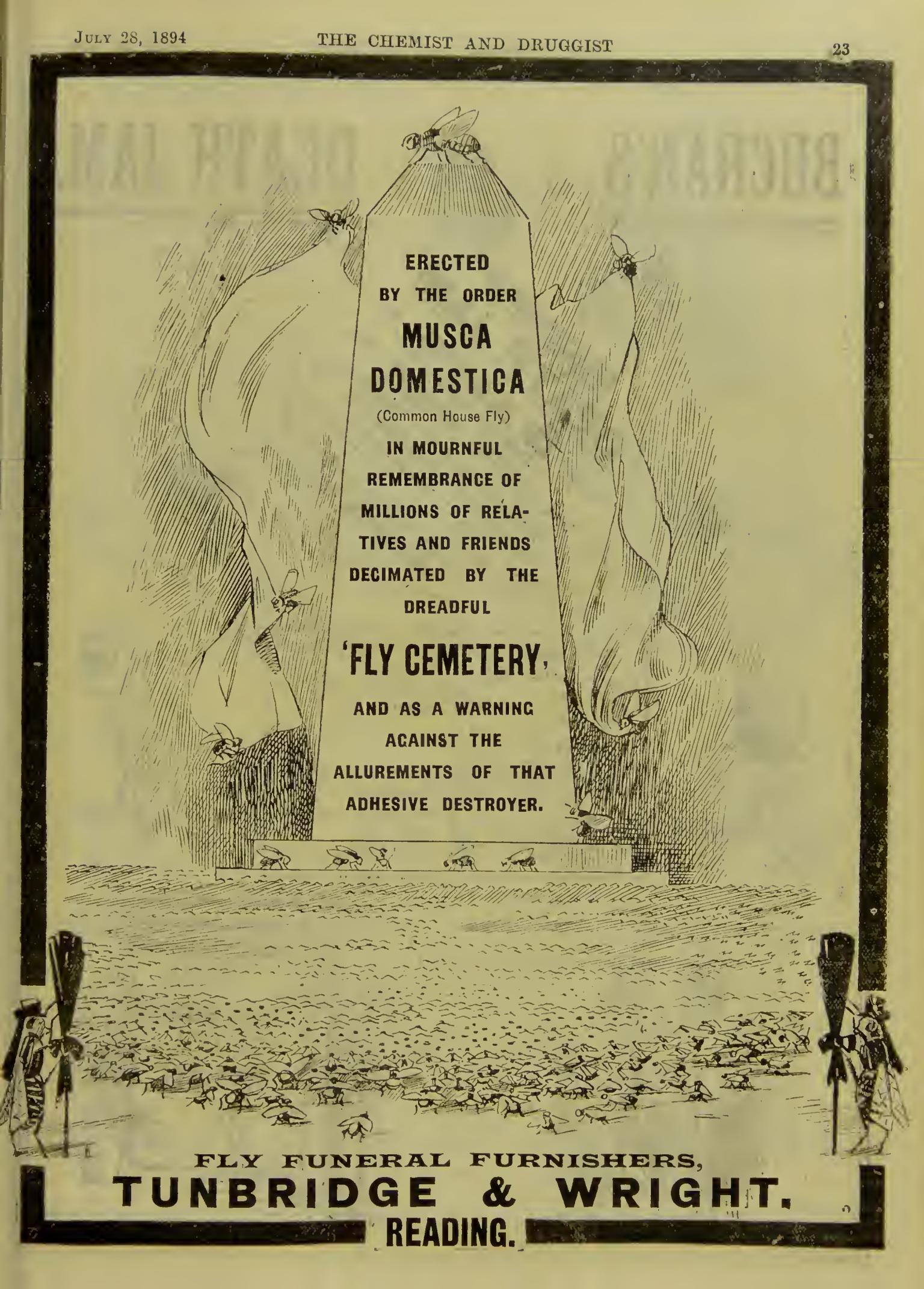
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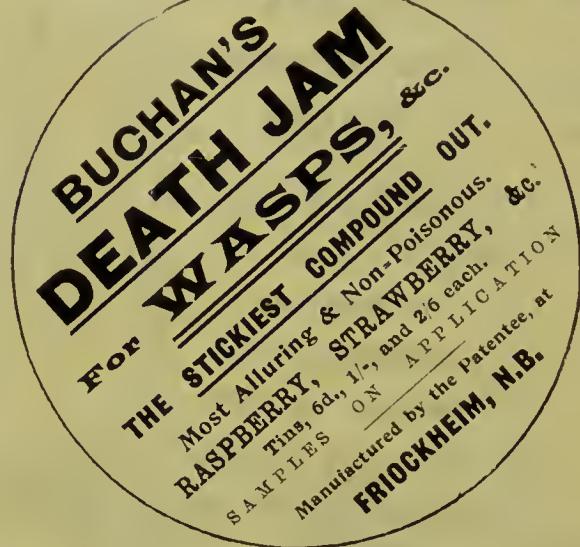
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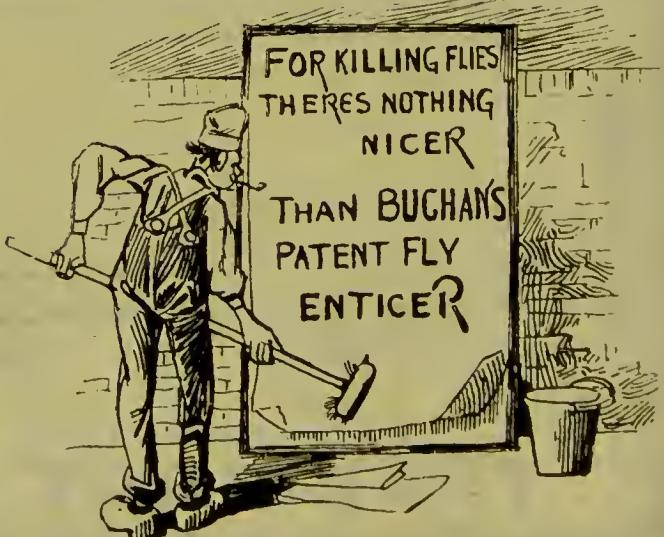
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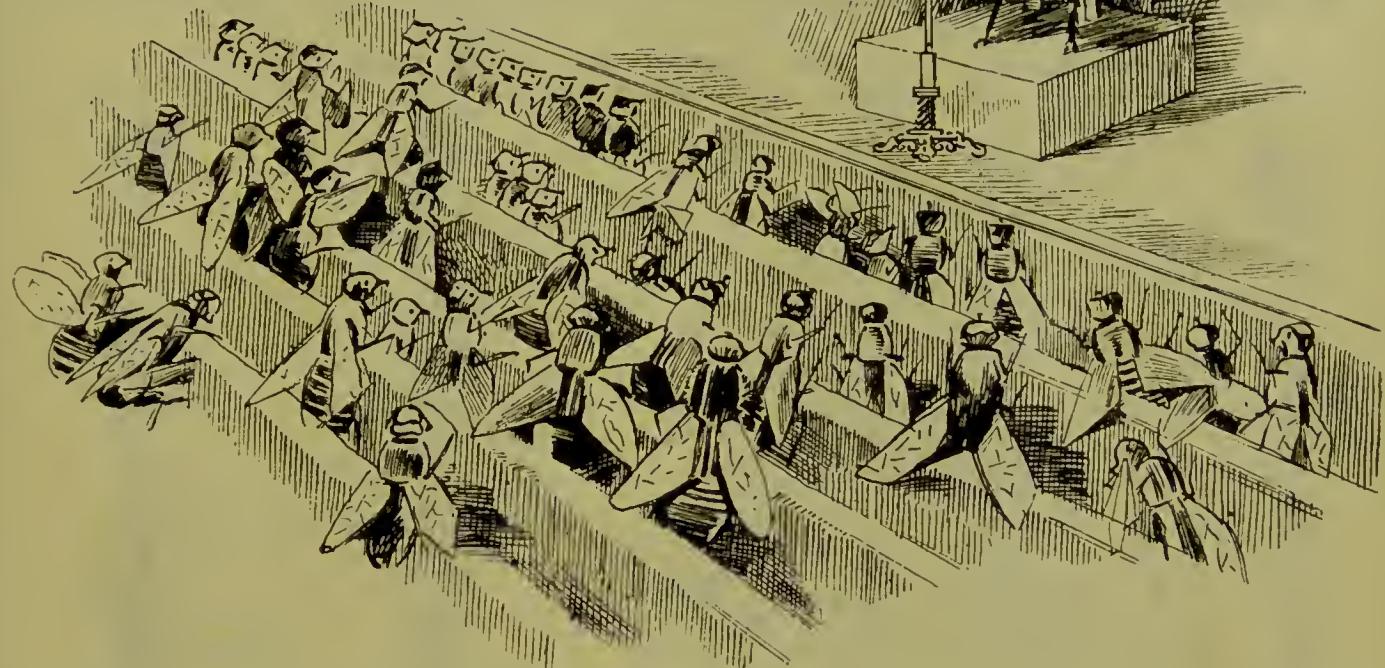
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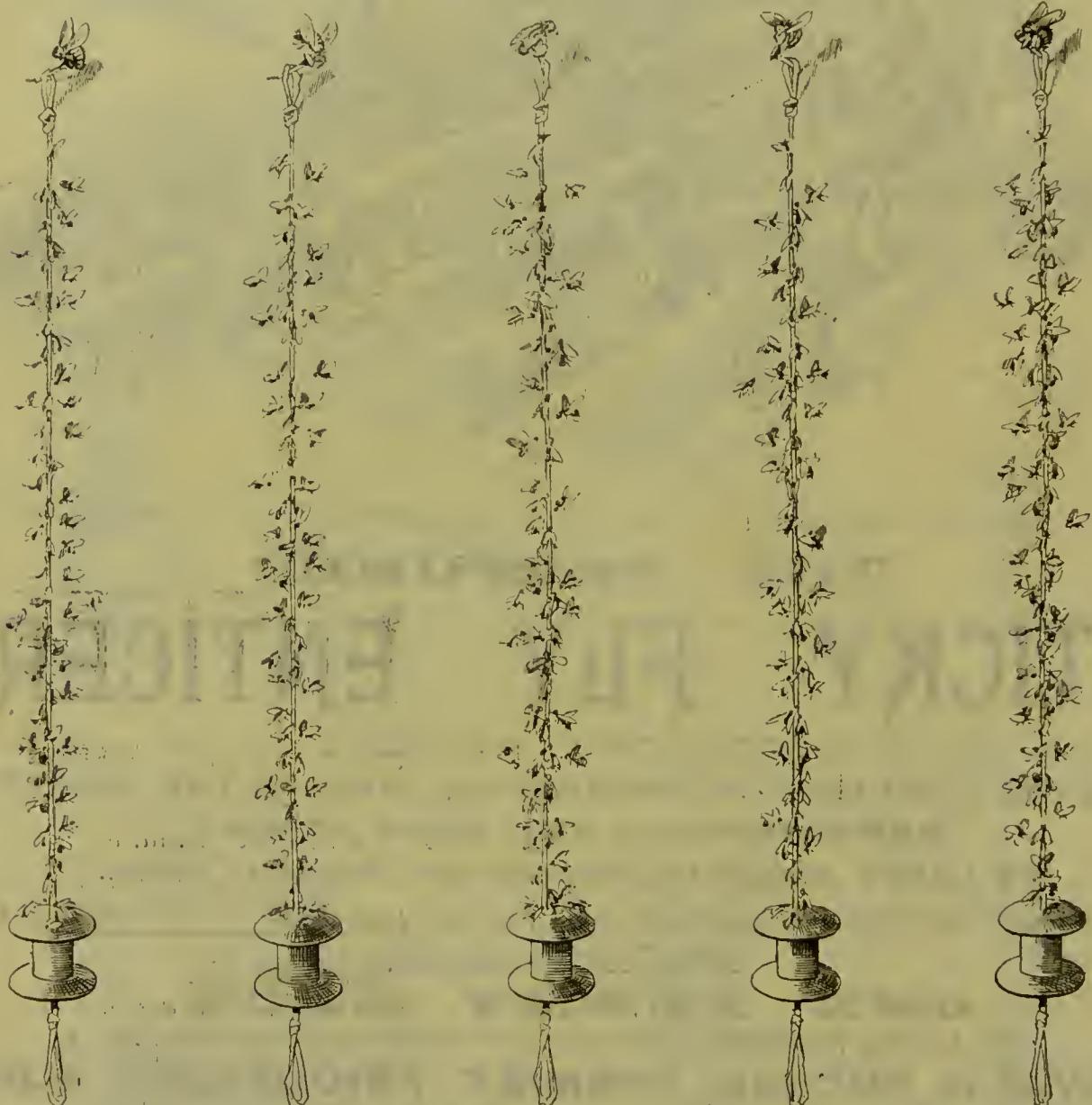
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For 1,000 ... ... ... ... ... 20/- per 1,000, less 20 per cent. discount.  
 " 5,000 ... ... ... ... ... 20/- " " " 25 " "

## SPECIAL QUOTATIONS FOR LARGER QUANTITIES.

The Papers are put up in PACKETS of 100 and 250 each, and in Boxes of 500.

**POSTERS AND ADVERTISING MATTER WITH EACH ORDER.**

**SOLE PROPRIETORS-**

# **WILLIAM MATHER, LTD.**

DYER STREET, HULME, MANCHESTER.

LONDON—Wholesale and Export Agents—

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## THE VERDICT.

FOUND DEAD WITH 500 OTHERS ON A MAY-ROBERTS FLYPAPER.

Penny Books (3 Sheets) ... ... ...	per gross	5/6
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**MAY, ROBERTS & CO.,** 9 & 11 Clerkenwell Road, **LONDON, E.C.**

# WAR TO THE KNIFE.

The present tactics of **Stores** and **Cutters** mean ruination to the legitimate chemist. **WHY SELL profitless** patents when, by a little tact and small expenditure, you can produce **your own** genuine Proprietaries, double your profits, and increase your business.

For nearly twenty years I have advertised my formulae in this journal, and am still on the war-path with over 3,000 chemists on my books. Testimonials I have hundreds, but, my business being strictly confidential, am debarred from using names. Following are samples:—

A Liverpool Chemist writes:—"I made **over £20** by one of your recipes last year."

A Pharmaceutical Chemist says:—"I netted £5 the first month after introducing the three recipes I had from you."

The following are selected from my detailed printed list (which will be sent post free anywhere) as being of use to most Chemists:—Price 1/- each, 6 for 5/-, 25 for £1, with full directions for making, doses, and all particulars.

**Instant Cure for Toothache**; seldom if ever fails; quickly made.

**Red Rose Lotion** (Erasmus Wilson); for skin blemishes, spots, &c.

**Eczema Ointment** (late Sir A. Clark's); has effected wonderful cures.

**Cryptzomosis**; injection for gleet, &c.; safe and certain.

**Depurative Saline**; equal to any sold; costs under 9d. per lb.

**Embrocation Alb.**; a perfect emulsion; snow-white; rubs smoothly; 9d. per lb.

**Tic Specific**; gives instant ease, and cures when other remedies fail.

**Gout and Rheumatic Pills**; a safe and reliable pill to introduce.

**Quinine and Iron Tonic**; pleasant, permanent, and elegant.

**Mist. Gonorrhœa**; an excellent capivi mixture; very efficacious.

**Asthma Cures**; tineture and herbal mixture; grand results.

**Hair Restorer**; clear; better than many now offered.

**Spring Blossoms**; an enchanting perfume; very popular.

**Bronchelixir**; concentrated tincture for bronchitis; excellent.

**Canadian Cone**; cures chilblains like magic; cleanly.

**Occasional Mixtures for Ladies**; can be relied on, and is quite safe.

**Corn Cure**; if others have disappointed, give this a trial.

**Glycerine Cream**; an elegant skin lotion for all seasons.

**Nursery Lotion**; keeps children's hair free from nits, &c.

**Cherokee Sauce**; piquante, appetising, and delicious.

**Tannin and Rose Gargle**; most pleasant, and keeps well.

**Digestive Syrup**; a genuine preparation; will sell on its merits.

**Blood Cleanser**; equal to any advertised, much cheaper.

**Stomach Corrector**; an excellent family medicine; very pleasant.

**Oatmeal and White Rose Lotion**; a seaside and ball-room requisite.

**Anti-drink Pills**; create a distaste for alcohol; very effective.

**Limes and Glycerine**; snow-white, inseparable, and cheap.

**Beauty Cream**; for imparting loveliness to the neck and breast.

**Soothing Syrup and Powders**; without opium; perfectly safe.

**Brown Boot Polish**; waterproof; brilliant and lasting.

**Occasional Pillis (for Ladies)**; my sale increases yearly; perfection.

**Carbolic Foam**; a sweet, cleansing, deodorising tooth-wash.

Following five **SPECIALS** are worth attention. Price 2/6 each, the set of 5 for 10/-.

"**Maltussine**," a cough syrup without Poisons, with a malt basis; bright and elegant; pleasing taste, rapid action; has the virtues of a cough cure combined with the feeding properties of malt extract. 4 oz. for 1/-. Pays well.

A Chemist near Manchester states:—"The best investment I ever made. . . . I consider your recipes first-rate; they are practical, elegant, and excellent."

"**The Golden Tonic**," an elegant and exceedingly pleasant-tasting tonic; keeps indefinitely, non-constipating; the best in the market. My sales increase yearly.

**Vincoceva**; the king of rheumatic embrocations; runs in smoothly, acts rapidly, killing pain; 3-oz. bottles for 1/-; half profit; sells on its merit.

**Peptonic Elixir**: gives instant relief in dyspepsia; dispels wind, corrects the stomach, arrests sea-sickness; one bottle will sell many; pleasant taste, and keeps well.

**Tocranol**; a compound powder for tender feet and unpleasant profuse perspiration; a boon to pedestrians; perfectly safe and economical; cooling and refreshing.

**EXTRA SPECIALS**, 5/- each, 20/- the 5. There is a fortune in these.

**The Circassian St'mulsnt**, for strengthening and promoting the growth of the Hair, also an excellent dressing. It can be converted into a Hair Stain, directions being given with recipe. An IDEAL Hair Tonic; nice appearance.

**Balsamic Cough Linctus**; a brilliant cherry-red, pleasant-tasting syrup, free from opium or any narcotic; costs 8d. per lb.; will keep indefinitely; specially adapted for whooping-cough many chemists have done well with this.

**Aniline Marking Ink**; the best in the market; writes freely jet black, which is intensified by washing; impossible to eradicate; less than one-sixth the price of silver ink, and pronounced far better; send 6d. for sample to prove it.

**Phosphorine Elixir**; the great nerve tonic; contains phosphorus, combined with other nerve-strengthening, life-giving ingredients; pleasant taste, elegant appearance, easily prepared, not liable to decomposition; pronounced a perfect preparation.

**The Corrective Stimulant**; a celebrated doctor's stock bottle; a concentrated mixture, bright and palatable; mixed 1 to 7 with water forms a grand revivifying pick-me-up, correcting stomach, bracing nerves, curing headache, biliousness, &c.; a splendid all-round mixture. NOTE!—Costs 9d. per lb.

Have you seen my **Solid Perfumes**, "**Sanoscent**" **Moth Killer**, and "**Floral Tablets**"? If not, it would pay you. Retail 2d. each; price 1/- per dozen; Sample 2 dozen each, carriage paid, for 5/-.

A New Line. 3d. Box of "**Haireclean**" milk's half-a-pint of strong Nursery Lotion. Sure to sell, and pays well. 20/- gross; 1 dozen as sample sent free for 1/9.

## TOM BROOKS, CHEMIST, HORNSEY, LONDON, N.



Come here you Rascal it's Pears'

# Pears' Soap

20 Highest Awards 20

LONDON . . . . .	1851	LONDON . . . . .	1862
PARIS . . . . .	1867	SANTIAGO . . . . .	1875
HILADELPHIA . . . . .	1876	PARIS . . . . .	1878
SYDNEY . . . . .	1879	BRIGHTON . . . . .	1881
OSTON . . . . .	1883	ADELAIDE . . . . .	1887
MELBOURNE . . . . .	1888	PARIS . . . . .	1889
DINBURGH . . . . .	1890	ROYAL MILITARY, LONDON	1890
		&c. &c. &c.	

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CAN BE OBTAINED UPON APPLICATION.

\* Depôts : \*

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NEW YORK—365 and 367, CANAL STREET—NEW YORK.

MELBOURNE—484, COLLINS STREET—MELBOURNE.

# Pears' Soap

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RETAIL PRICES			WHOLESALE PRICES
		Per Dozen.	
6d.	SIZE, unscented	4S.	
1s.	,, all shapes, Washing or Shaving	8S.	
1s. 6d.	,, Ditto ditto	12S.	
2s. 6d.	,, (The Washing Tablets are perfumed with Otto of Roses)	20S.	
TRANSPARENT GLYCERINE	2S. per Box of 3 Tablets	16S.	Per dozen Boxes.

## DISCOUNT of 20 per Cent.

On all ORDERS of NOT LESS than £5.

(GROSS TRADE-PRICE VALUE.)

If accompanied by Remittance,

[Lesser Quantities 15 per Cent. Discount only.]



### IMPORTANT STATEMENT.



No Dealer in the Kingdom, "Wholesale or Retail," for any quantity whatever obtains more than the above 20 PER CENT. Discount.

(Signed), *A & K Pears*



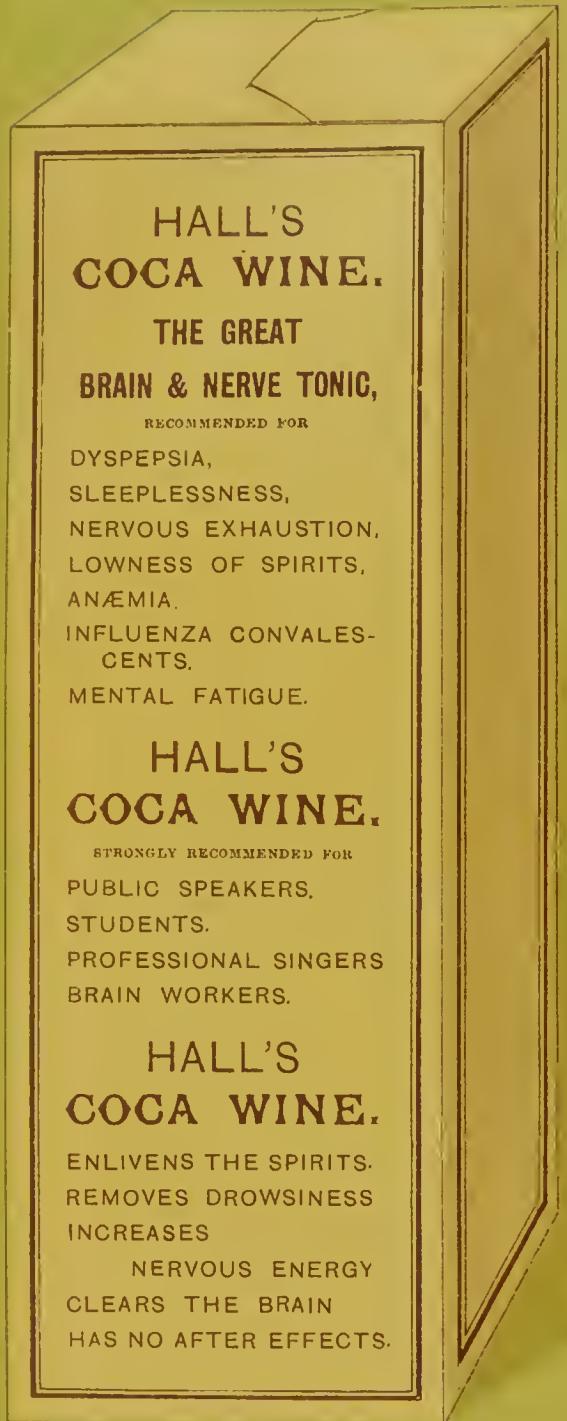
The London Offices of A. &amp; F. PEARS Limited, 71-75 New Oxford Street, WC.

STEPHEN SMITH & CO.

MEDICATED  
WINE  
MERCHANTS

BOW

LONDON. E.



HALL'S  
COCA WINE.

**THE GREAT  
BRAIN & NERVE TONIC,**  
RECOMMENDED FOR  
DYSPEPSIA,  
SLEEPLESSNESS,  
NERVOUS EXHAUSTION,  
LOWNESS OF SPIRITS,  
ANÆMIA,  
INFLUENZA CONVALES-  
CENTS,  
MENTAL FATIGUE.

HALL'S  
COCA WINE.

STRONGLY RECOMMENDED FOR  
PUBLIC SPEAKERS.  
STUDENTS.  
PROFESSIONAL SINGERS  
BRAIN WORKERS.

HALL'S  
COCA WINE.

ENLIVENS THE SPIRITS.  
REMOVES DROWSINESS  
INCREASES  
NERVOUS ENERGY  
CLEAR'S THE BRAIN  
HAS NO AFTER EFFECTS.

HALL'S  
Coca Wine.

3/6 size 26/0 per 1 doz. case.  
2/0 , 30/0 per 2 doz. case.

### *Increasing in Popularity.*

HIGH STREET, SOUTHAMPTON.  
GENTLEMEN.

GENTLEMEN,  
As the sale is fast increasing,  
please send 6 dozen Hall's Coca Wine.  
Everyone I sell it to is pleased with it,  
and have no hesitation in saying it  
will have an enormous sale.

Yours truly,

W. MARTIN.

TONBRIDGE

GENTLEMEN,  
Please send immediately another  
dozen Hall's Coca Wine. We find the  
sale rapidly increasing.

Yours truly,

A. & J. GOWER

77, EASTGATE STREET,  
LOUTH

GENTLEMEN,  
Please send one dozen Hall's  
Coca Wine. It seems to be as well  
liked as the more expensive kinds.

Yours truly,

J. W. DENNIS & SON

ULVERSTON

GENTLEMEN,  
We are having a large demand  
for Hall's Coca Wine since you sent  
the samples to the doctors

H. W. MACKERETH



# STEPHEN SMITH & CO.

# BOW, LONDON E.



## ORANGE AND QUININE WINE, B.P.

26-oz. Bottle .... 10/0 per doz.  
20-oz. , , .... 9/0  
PREPARED WITH  
HOWARD'S SULPHATE.

Gives maximum of satisfaction.

TENTERDEN, KENT

GENTLEMEN,  
Please send another two dozen Orange and Quinine Wine. I am much pleased with it and the low price enables me to compete with the stores.  
Yours truly,  
G. H. WILLSHER.

TEYNHAM.

GENTLEMEN,  
Enclosed is P.O. to balance a/c  
The Orange and Quinine Wine is very nice indeed. Yours truly,  
W STEDMAN

FAMILY AND DISPENSING CHEMIST.  
EARL'S BARTON.

DEAR SIRS,  
Enclosed is P.O. Order in payment of my account. I am very pleased indeed with the style of your Quinine Wine and think it a marvel of cheapness. Yours truly,  
T. F. THORPE  
Messrs STEPHEN SMITH & Co



STEPHEN SMITH & Co.

BOW, LONDON · E.

	PER GALLON
<b>VINRUBIS.</b> —A Pure Red Wine, the best basis for Coca, Meat and Malt Wines, &c., requiring a full body with a high aleoholic strength ... ... ... ... 6/6	
<b>PURE CADIZ SHERRY, B.P.</b> ... ... ... 6/6	
<b>EXTRA PALIDO SHERRY, B.P.</b> ... ... 7/3	
<b>ORANGE WINE, B.P.</b> ... ... ... 3/0	
" " ... ... ... 3/9	
" " very old ... ... ... 4/6	
<b>ORANGE &amp; QUININE WINE (Howard's Sulphate)</b> 4/6	
<b>MALAGA</b> ... ... ... ... ...	
	S.V. Rect. B.P. 56 o.p.
	S.V. Rect. triple distilled, for Perfumery 60 o.p.

Packages are charged in addition and allowed for when returned.

Orange and Quinine Wine supplied in Bottles without Labels.  
Orders for 2 dozen upwards cases are included in the price

SAMPLES SENT POST FREE.

Our Goods can be obtained through the Sundries Houses.

SIX GOLD AND PRIZE MEDALS AWARDED  
AT GREAT EXHIBITIONS FOR  
**PURITY OF SOAPS.**

GOLD MEDAL

GOLD MEDAL



PARIS, 1878.



PARIS, 1889.



**PRICE LIST  
OF  
HIGH CLASS  
Cook's  
ure Toilet Soaps**



Exquisitely Perfumed. Suitable for all Tastes.

SPECIALITIES MADE FOR THE TRADE.

**EDWARD COOK & Co.,  
LONDON, E.**

Established over 100 Years.  
Contractors to H.M. Government.

Telephone No. 5409.

Telegraphic Address: "EDWARD COOK, LONDON."

# “Edward Cook’s” Toilet Soaps

(Guaranteed Pure).

HONEY. GLYCERINE & ALMOND. WHITE ALMOND. CARBOLIC  
 ROSE. BROWN WINDSOR. WHITE CURD. (Scented).  
 GLYCERINE. ELDER FLOWER. TAR. OATMEAL.

## TRANSPARENT GLYCERINE (Light, Dark and Rose Coloured).

*Packed separately from other Toilet Soaps.*

In Tablets of 4, 5 or 6 to the lb. (or in 1-lb. or $\frac{1}{2}$ -lb. Bars), assorted or otherwise, packed in 7-lb. or 14-lb. boxes, or in $\frac{1}{2}$ -gross or $\frac{1}{4}$ -gross boxes ... ... ... per Cwt.	40/-
„ 12 to 16 to the lb. ... ... ... ... per Cwt.	41/-
In Fancy Cardboard Boxes, 3 tabs., 5 to the lb. ... ... ... per Doz. Boxes	45/-
„ „ „ 4 „ ... ... ... per Doz. Boxes	3/8
„ „ „ 3 „ ... ... ... per Doz. Boxes	4/6
„ „ „ „ ... ... ... per Doz. Boxes	6/-

All the above qualities may be had wrapped in tinfoil at 5/- per cwt. extra. TAR and CARBOLIC wrapped in tinfoil and printed wrapper at 7/6 per cwt. extra, or in wax paper, tinfoil and printed wrapper, at 10/- per cwt. extra.

(N.B.—With order, it should be stated whether OVAL or SQUARE mould is preferred.)

\*SPECIALITY:—CARDBOARD BOXES, each containing 1 doz. tabs., 4 to the lb., assorted or otherwise ... ... ... ... ... per Doz. Boxes

\*5 per cent. extra discount for orders of 3 dozen boxes and upwards.

40/-  
41/-  
45/-  
3/8  
4/6  
6/-

13/6

## Cook’s Gold Medal Primrose,

In Toilet Tablets (Unscented).

The Purest Soap known; in pieces with no corners; pleasant to use.

In 7-lb. boxes ... ... ... ... ... ... ... per Cwt.	30/-
In Fancy Cardboard Boxes, 6 tabs. ... ... ... ... per Doz. Boxes	5/6
„ „ 12 tabs. ... ... ... ... per Doz. Boxes	9/6

30/-  
5/6  
9/6

## Cook’s “Cold Cream” Soap.

Richly perfumed; produces a creamy lather; softens and beautifies the complexion.

In Cardboard Boxes, 12 tabs. ... ... ... ... ... per Doz Boxes	24/-
--	------

24/-

## Cook’s “Cold Cream and Oatmeal.”

This Soap is soothing and emollient; it improves the complexion, and is suitable for delicate skins. Owing to it being entirely free from chemical ingredients it is admirably suitable for use in the Nursery.

In Boxes, 24 tabs. ... ... ... ... ... per Doz. Boxes	48/-
In Cardboard Boxes, 12 tabs. ... ... ... ... per Doz. Boxes	24/-
„ „ 3 tabs. ... ... ... ... per Doz. Boxes	7/-

48/-  
24/-  
7/-

## Cook’s “Cold Cream and Cucumber”

Is a most beautiful Soap for the Toilet.—It contains no excess of soda or potash.

In Cardboard Boxes, 12 tabs. ... ... ... ... ... per Doz. Boxes	27/-
---	------

27/-

## Highly Dried and Extra Scented Toilet Soap.

Cook’s  Brand.

Pure, Economical, Agreeable, Unshrinkable.

Honey, Glycerine, Brown Windsor, Elder Flower, Rose, White Glycerine.

In Boxes, $\frac{1}{2}$ -gross tabs. ... ... ... ... ... per Doz. Boxes	54/-
„ 24 tabs. ... ... ... ... per Doz. Boxes	38/-
In Cardboard Boxes, 6 tabs. ... ... ... ... per Doz. Boxes	10/6
„ „ 3 tabs. ... ... ... ... per Doz. Boxes	6/-

54/-  
38/-  
10/6  
6/-

# Cook's "Bouquet of Roses."

The Luxurious Perfume contains "Otto of Roses."

Highly recommended as thoroughly PURE, NEUTRAL, INDURATED, EMOLlient.

In Fancy Cardboard Boxes, with handsome labels, 3 tabs. ...	... per Doz. Boxes	<b>11/-</b>
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# Cook's "Savon de Luxe" (Registered)

(The Most Luxurious Soap made).

Egg-shaped tablets, exquisitely perfumed, luxurious in use, in fancy cardboard boxes, 3 tabs. each.  
Each tablet separately wrapped in a handsome wrapper.

MUSK, VIOLET, LAVENDER, PATCHOULY, THE QUEEN'S BOUQUET ...	per Doz. Boxes	<b>24/-</b>
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THE THREE ROSES, "WHITE MOSS," "MARECHAL NIEL," "LA FRANCE" (Otto Scented) ... ... ... ... ...	per Doz. Boxes	<b>25/-</b>
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Samples of Cook's "Savon de Luxe," in boxes containing 8 Bijou Tablets	per Doz. Boxes	<b>4/-</b>
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# Cook's High-class Brown "Windsor" Soaps.

Exquisitely perfumed—packed in 7-lb. or 14-lb. wood boxes.

EMOLLIENT, at 56/- per cwt.; FAMILY, at 70/- per cwt.; EXTRA SCENTED, at 112/- per cwt.;

MUSK, at 120/- per cwt.

# Cook's "Hygienic" Tooth Soap.

Cleanses and whitens the teeth and prevents decay—prescribed by Leading Dentists.

In Porcelain Boxes ... ... ... ... ...	per Doz. Boxes	<b>7/-</b>
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# Cook's "Riviera" Tooth Soap.

Very pleasant and fragrant in use and will not injure the enamel.

In Boxes ... ... ... ... ...	per Doz. Boxes	<b>3/6</b>
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# Cook's "Riviera" Soap

(Super-Fatted).

This is a very Valuable Soap, free from colouring matter, and especially suitable for the delicate and sensitive skins of Ladies and Children. It has given great satisfaction to all who have used it.

Each tablet is tastefully wrapped, and the costly perfumes are so blended as to be lasting, but not too pronounced.

In Cardboard Boxes, 12 tabs. ... ... ... ...	per Doz. Boxes	<b>35/-</b>
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" " 3 tabs. ... ... ... ...	per Doz. Boxes	<b>10/-</b>
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# Cook's "Eucalyptus" Soap.

Contains a really effective quantity of the finest Oil of Eucalyptus Globulus.—Is very beneficial in Influenza Cases, and to persons subject to sudden Catarrh.

In Cardboard Boxes, 12 tabs. ... ... ... ...	per Doz. Boxes	<b>28/-</b>
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# Cook's Shaving Sticks

Are Highly Perfumed and are "Super-Fatted." They will be found in use very pleasant to the skin, and to make an enduring lather. They are packed in convenient boxes, and make shaving a pleasure.

" Riviera," in Fancy Cardboard Boxes ... ... ...	per Doz. Boxes	<b>2/11</b>
--	----------------	-------------

" Savon de Luxe," in Ivory Boxes ... ... ...	per Doz. Boxes	<b>8/-</b>
--	----------------	------------

## Cook's "Jupiter" Soap FOR THE PEOPLE.

*Contains glycerine; is fragrant and emollient; will soften and beautify the skin.*

In Cardboard Boxes, 24 tabs.	...	...	...	...	...	per Doz. Boxes	40/-
" "	3 tabs.	...	...	...	...	per Doz. Boxes	6/-

## Cook's "Sulphur and Glycerine"

*Is free from excess of soda; perfectly Pure; and may be used by those whose skin is most sensitive.*

In Cardboard Boxes, 12 tabs.	...	...	...	...	...	per Doz. Boxes	27/-
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## Cook's "10 per cent." Toilet Carbolic

*Is free from excess of soda, and may be used for delicate skins.*

In Cardboard Boxes, 3 tabs.	...	...	...	...	...	per Doz. Boxes	10/-
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## Cook's "20 per cent." Toilet Carbolic

*Is free from excess of soda, and may be used for delicate skins.*

In Cardboard Boxes, 3 tabs.	...	...	...	...	...	per Doz. Boxes	22/-
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## Cook's Gold Medal "Antiseptic" Soap

(Thomson's Patent).

Recommended by the HIGHEST MEDICAL AUTHORITIES for Curing ECZEMA, RINGWORM, and SKIN IRRITATION, and for preserving the skin in health.

This Soap is the result of years of patient research. It contains very costly Drugs, and has been tested with most beneficial results in Public Institutions and in Private Practice. Messrs. EDWARD COOK & CO. have numerous testimonials to prove this, some of which they are permitted to publish.

In Boxes, $\frac{1}{4}$ -gross tabs.	...	...	...	...	...	...	per Box	10/6
In Cardboard Boxes, 3 tabs.	...	...	...	...	...	...	per Doz. Boxes	12/-

## TERMS:

 Nett at One Month. 

 As these lists are sent all over the World, the prices quoted are Nett in London, F.O.R. or F.O.B.

## Cook's Household Soaps

OF EVERY DESCRIPTION.

Cook's Gold Medal Primrose, Mottled,  
and Soft Soaps.

Cook's Gold Medal "Lightning" Cleanser,  
THE MOST RAPID WASHING SOAP MADE.

YE THIRSTY SOULS



THIS IS NOT  
A SUCKED ORANGE

TRY IT

# Our Specialities.

## Concentrated Soluble Essence of **MESSINA LEMONS.**

## Concentrated Soluble Essence of **JAMAICA GINGER.**

## Concentrated Soluble Essence of **BELFAST GINGER ALE** (THE TRUE FLAVOUR.)

**W**E beg to draw the attention of the Mineral Water Trade to our Select Brand of Essence of Lemon, which we have lately improved by a Special Process, and which we are now supplying to many of the leading houses in the Trade.

We are convinced that this Essence cannot be equalled, and we advise all who desire to produce a Lemonade of exquisite flavour and brilliancy, to give this Brand a trial.

Quantity required—1 oz. to each Gallon of Acidulated Syrup.

**6/6 per lb.** In Winchesters **6/3 per lb.** In Gallons **6/- lb.**

### GUARANTEED FREE FROM CAPSICUM.

**T**HIS is the Finest Ginger Essence procurable; it is perfectly soluble, powerful aroma, and being entirely free from Capsicum, it produces an agreeable warmth without that burning sensation so common in many so called Essences of Ginger.

Quantity required—1 to 2 oz. to each Gallon of Syrup.

**4/6 per lb.** In Winchesters **4/3 per lb.** In Gallons **4/- lb.**

**W**E claim that this Essence is the only one in the Market that produces a Ginger Ale equal in flavour to the leading Belfast Makes. The demand for this Essence is rapidly increasing, and we strongly advise those who desire to increase their trade to give this a fair trial.

Quantity required—1 to 1½ oz. to each Gallon of Acidulated Syrup.

**7/- per lb.** In Winchesters **6/9 per lb.** In Gallons **6/6 lb.**

**BRATBY & HINCHLIFFE Ltd.,**  
Manufacturing and Analytical Chemists,  
**SANDFORD STREET, MANCHESTER,**  
Also at 81 ROBERTSON STREET, GLASGOW, and 146 MINORIES, LONDON, E.

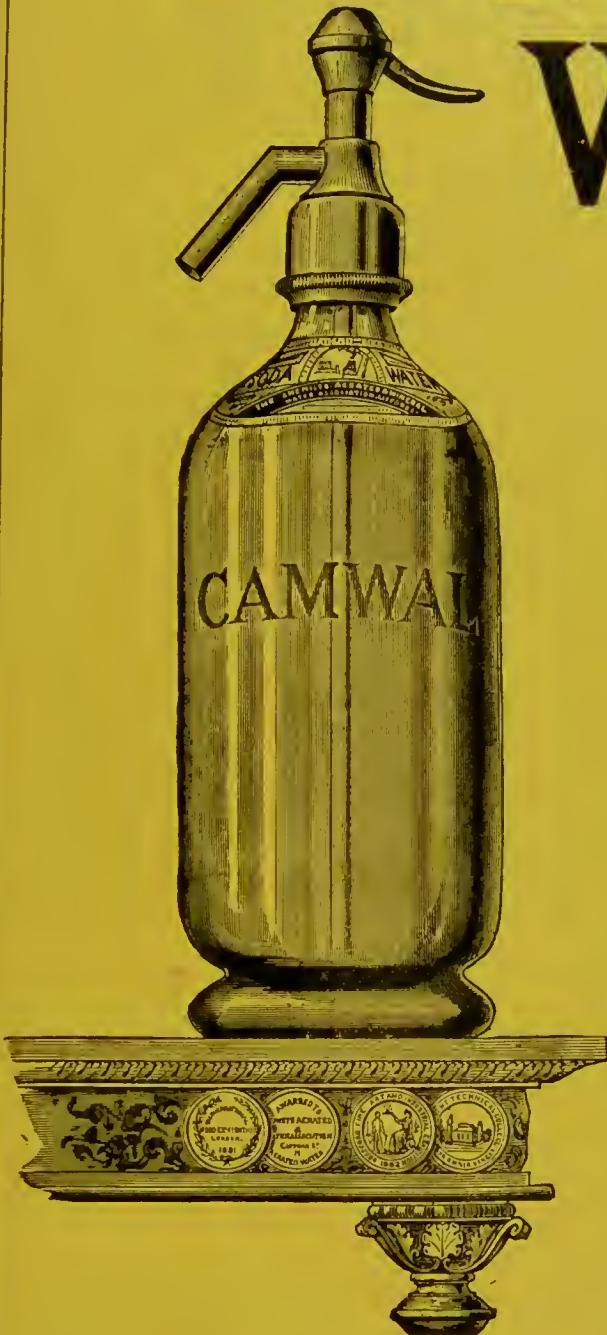
THE

C.A.M.W.A.L.  
CHEMISTS' AERATED & MINERAL WATER ASSOCIATION LIMITED.

# WATERS

OF GUARANTEED PURITY.

In Syphons  
and Bottles.



The Only  
Prize Medal  
London, 1881.

Soda Water

The Highest  
Prize Medal  
Bradford 1882.

Potash Water

Gold Medal  
Birmingham, 1893.

Seltzer Water

Gold Medal  
London, 1893.

Lemonade

Ginger Ale



Lithia Water

The —  
**Chemists' Aërated & Mineral Waters**  
Association, Limited

London, N.

HARROGATE

BRISTOL

MITCHAM

## Chemists

should carefully read and digest the following selection  
of opinions of their Confreres regarding

# C.A.M.W.A.L. Table Waters.

34, Hill Rise, Richmond, S.W.,

May 1st, 1894.

DEAR SIR,

I beg to state that both my customers and self are fully satisfied with the quality of the Waters supplied by C.A.M.W.A.L.—an opinion generally endorsed by the Medical Profession, with whom your Waters are a distinct favourite, being able to rely on the nature of the contents as specified on the label of each Syphon. The Syphons are second to none for style and cleanliness. I have never had a complaint on that ground, and have been the recipient of many congratulations. A lady recently observed "your Syphons are an ornament to the table and a credit to the Company." Since taking your Agency I have materially increased my sale of Aerated Waters, and I shall continue to advocate their just claims, based upon the best and surest foundation, that the trade will be kept in the hands of the Chemists, and that we shall reap the reward of our efforts, and not build a nest for some Cuckoo to lay its eggs in. Obviously it is to the advantage of all Chemists to sell your Waters.

Yours truly,

REX BLANCHFORD.

357, Norwood Road, S.E.,

June 7th, 1894.

DEAR SIR,

I beg to inform you that I have never had a single complaint against the C.A.M.W.A.L. Waters, and, as you are aware, I have been a Member since its commencement. I consider that Chemists are very unwise in not supporting the Association and so protecting themselves against Grocers, Wine Merchants, &c,

I have taken every opportunity to urge my friends to join the Association.

Yours truly,

WM. REDPATH

High Street, Wandsworth, S.W.,

May 1st, 1894.

DEAR SIR,

We are quite satisfied with the quality of the waters, also with the turn-out and appearance of the syphons. We certainly think it an advantage to deal in a water that Chemists only can stock.

We would advise all Chemists to join the Association.

Yours faithfully,

BELL & CO.

20, Arlington Park Gardens, South Chiswick,

17/5/94.

DEAR SIR,

I have much pleasure in saying that I am very well pleased with the quality of the waters, also with the turn-out and appearance of syphons. I consider it an advantage to deal in a water that Chemists only can stock.

Wishing the Association every success,

I remain, yours faithfully,

F. R. BROUMPTON.

141 & 143, High St., Battersea, S.W.

GENTLEMEN,

There is abundant proof that C.A.M.W.A.L. Mineral Waters are preferred to any other manufacture in the increase of my sale, combined with the startling comments on their good qualities as compared to others which have been formerly used. One of my customers (a good judge) only a few days since said that he preferred the C.A.M.W.A.L. Waters, because they threw out the spirit and made the drink more agreeable and satisfactory than when any other Mineral Water was used. All the others (one in particular which I have supplied him with) he described as merely ordinary water. This being the case, I am quite sure all Chemists should join C.A.M.W.A.L. and have a "spécialité," so to speak, of their own, obtaining thereby more profit and recommendation than can possibly be obtained from any other source.

Yours faithfully,

GEO. T. H. BARTLETT.

Eden St., Kingston-on-Thames,

1st June, 1894.

DEAR SIR,

We are glad to be able to say that the quality of the C.A.M.W.A.L. Waters is in our opinion not to be surpassed, and the appearance and turn-out of the Syphons is a credit to all concerned in their production, which will be increased if maintained through the busy season, which we hope is just at hand. We feel that the advantages of recommending and pushing Waters which we have a direct and personal interest in on the one hand, and perfect confidence in as to quality on the other, are too obvious to need comment; whilst the fact of being manufactured by an Association of Chemists and sold only by Chemists is in and of itself a guarantee to our customers of their purity and quality.

We have no hesitation in saying that we very far from regret that we have for some years now been selling the C.A.M.W.A.L. Waters, and should recommend others in the trade who have not yet done so to do so at once.

We are, Sir, Faithfully yours,

E. C. TAMPLIN & SON.

Croydon,

May 4th, 1894.

DEAR SIR,

I am pleased to inform you that I am satisfied with the quality of the Waters. The turn-out and clean appearance of the Syphons do credit to the Works. I certainly consider there is an advantage in Chemists having Mineral waters especially prepared for their sale, as it ensures a good article and shuts out the competition of outsiders.

I would advise those Chemists who do not sell your Waters to do so. The repeat orders from my customers is the best evidence that they are satisfied with the Waters.

Yours faithfully,

H. LONG.

4, London Road, Forest Hill, S.E.,

May 5th, 1894.

GENTLEMEN,

We have much pleasure in saying the supply of waters gives much satisfaction.

It is a great advantage to be protected from cutting people, who get their profit by side issues. We therefore recommend our fellow chemists to think this over, and decide for themselves as to the best course to pursue.

Yours faithfully,

JOHN HILLEN.

THE

# Chemists' Aerated Mineral Waters Association, Limited,

LONDON, HARROGATE, BRISTOL AND MITCHAM.

Chemists and Chemists' Assistants

who are not already Members, can obtain through the Secretary one £1 Share  
at 25s. 6d.

# C.A.M.W.A.L.'S PROGRESS,

Achieved by GIVING SATISFACTION to Members and to the Consuming Public.

Year.	No. of Members.	Dividend.	Year.	No. of Members.	Dividend.
1878	119		1886	1,463	6 per cent.
1879	350	None.	1887	1,612	7½ , "
1880	430		1888	1,892	5 , "
1881	540		1889	2,031	7½ , "
1882	615	3½ per cent.	1890	2,088	8¾ , "
1883	708	5 , "	1891	2,134	10 , "
1884	998	6 , "	1892	2,312	10 , "
1885	1,193	6 , "			
1893 - 2504	{ 10 per cent. Dividend. 10 per cent. Bonus. }				{ Equal to 20 per cent.

and some Hundreds have joined since.

## C.A.M.W.A.L.'S NEW ARTESIAN WELL AT HARROGATE.

Read DR. ATTFIELD'S ANALYSIS, and judge for yourselves. It will please Members as it does the Directors.

### ANALYSIS OF C.A.M.W.A.L.'S WELL-WATER AT HARROGATE.

	Dissolved Solids.	Grains per Gallon.
Chloride of Potassium	- - - - -	0·668
Chloride of Sodium	- - - - -	3·513
Sulphate of Sodium	- - - - -	1·260
Carbonate of Sodium	- - - - -	1·016
Carbonate of Calcium	- - - - -	9·188
Carbonate of Magnesium	- - - - -	4·697
Oxides of Aluminium and Iron	- - - - -	0·263
Silica	- - - - -	1·561
Organic Matter	- - - - -	None
Total Dissolved Solids	- - - - -	22·166

ANALYTICAL DATA.—Potassium, 0·350; Sodium, 2·230; Magnesium, 1·342; Calcium, 3·675; Oxides of Aluminium and Iron, 0·263; Silica, 1·561; Sulphuric Radical, 0·852; Chlorine, 2·450; Carbonic Radical, 9·443; Total, 22·166.

(Signed) JOHN ATTFIELD.

June 30th, 1894.



ROYAL AGRICULTURAL SHOW, CAMBRIDGE, 1894.

ELLIS'



REGISTERED.

ESTABLISHED 1825.

## Table Waters.

"CRYSTAL SPRINGS."

"ABSOLUTELY PURE."

Unrivalled Remedies for Loss of Appetite, Indigestion, Acidity, Rheumatism, Lumbago, Sciatica, Gout and Liver Complaints. Prevent Sea Sickness.

**DELICIOUS. WHOLESOME. SPARKLING. FOR DAILY USE.**

Mix admirably with Wines, Spirits, and Milk, retaining their freshness incomparably, and are not liable to decomposition or alteration.

Dr. FRANKLAND says: "Clear, palatable, perfectly free from organic matter, well charged with gas, and in every respect of the very best quality for drinking."

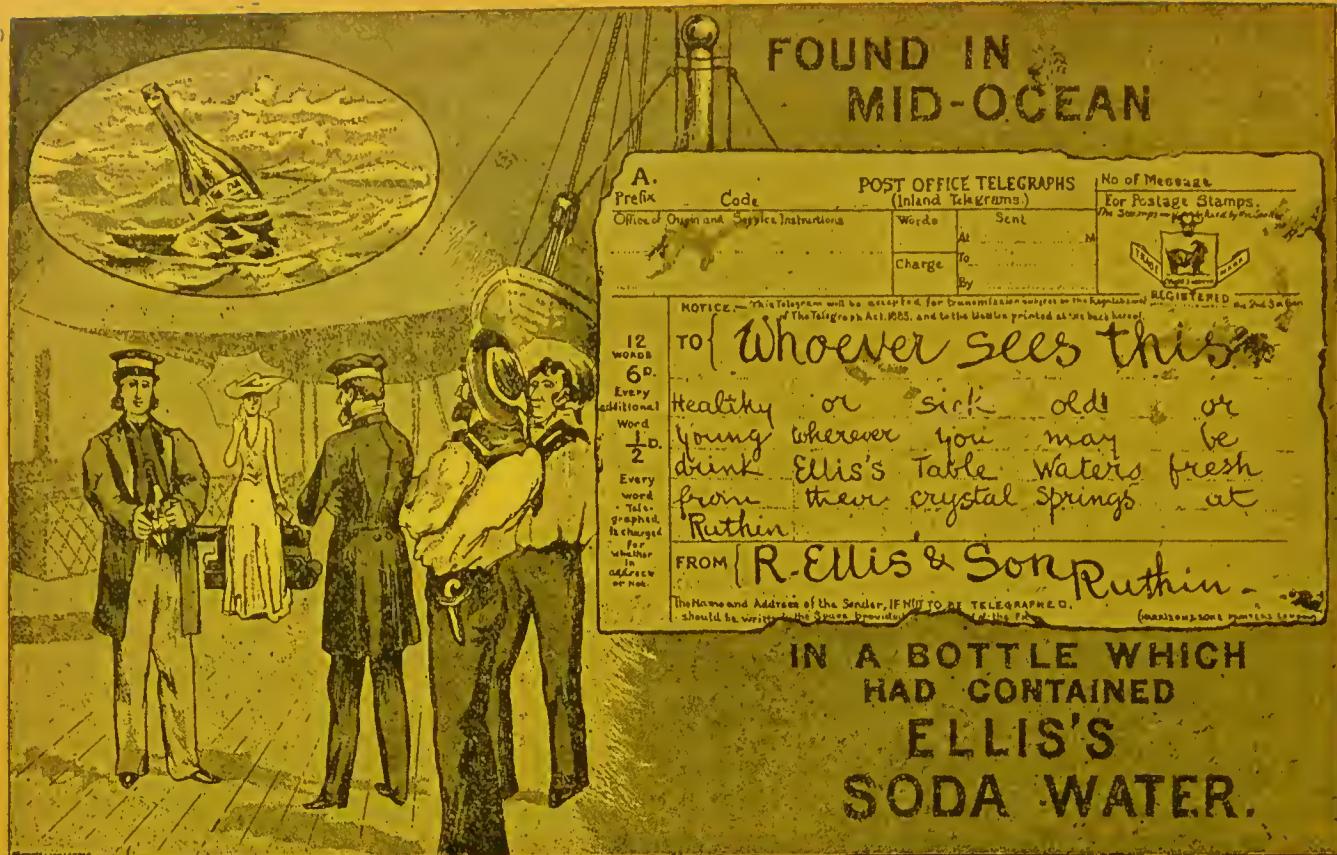
Prof. J. ALFRED WANKLYN says: "The Water is of first-class organic purity; the quality of the gas is excellent; I do not think there are better table waters in the market. They are most excellent, and I confidently recommend them."

The ATHENÆUM CLUB. The Secretary writes: "It is, I think, without question that your Mineral Waters are the very purest manufactured. They give the greatest satisfaction here, and deservedly so. I was much impressed with the cleanliness and scrupulous care bestowed in the manufacture when I recently paid a visit to the works."

The MEDICAL PRESS says: "We should say from a personal examination of the water on the spot that it appears to be as typically perfect as can be found at home or abroad. 'Ellis' of Ruthin,' have been recognised for over half a century as making the purest and most palatable waters."

**ELLIS' SODA WATER.**—Unequalled as a delicious and healthy daily table water, promoting appetite and assisting digestion, and preventing acidity.

**ELLIS' SELTZER WATER.**—"A very pure and excellent table water. The quality of the gas is excellent. I do not think there is a better table water in the market."—J. ALFRED WANKLYN, M.R.C.S.



**ELLIS' POTASS WATER**—For Rheumatism, Sciatica, Lumbago ; potent, palatable ; invaluable in Urinary affections and for Nursing Mothers.

**ELLIS' CHAMPAGNE LEMONADE**—For Ladies, Children, Invalids ; delicious and most wholesome beverage.

**ELLIS' QUININE WATER**—A safe and valuable tonic, pleasant to the taste, and can be freely taken.

**ELLIS' "DRY GINGER ALE"**—A spécialité. Non - intoxicating, charming, exhilarating tonic ; equal to the finest champagne. In  $\frac{1}{2}$ -pint bottles.

**ELLIS' LITHIA WATER** AND **LITHIA & POTASS WATER**} Most valuable and certain curative agents in cases of Gout, Gravel, Rheumatism, Sciatica and Kidney Diseases.

## ELLIS' Table Waters, in Syphons, Bottles and Splits.

Manufactured entirely from an inexhaustible and absolutely pure "Crystal Spring," situated on the private premises of, and exclusively the property of, the Firm.

Supplied at all first-class Clubs, Hotels and Restaurants, etc.

Carriage paid to any address on 6 doz. Half-pints, 12 doz. Splits, or 4 doz. Syphons, if ordered through one of the Agents of the Firm.

**CAUTION.**—Ask for and insist on having **ELLIS'**, and see that every cork is branded "R. Ellis & Son, Ruthin," and that every Syphon and Bottle bears a label with the name of the firm and the registered Trade Mark—"Goat on Shield"—on it. None genuine without.

Sole Address : **R. ELLIS & SON, Ruthin, N. Wales.**

London Agents: W. BEST & SONS, 22, Henrietta Street, Cavendish Square, W.

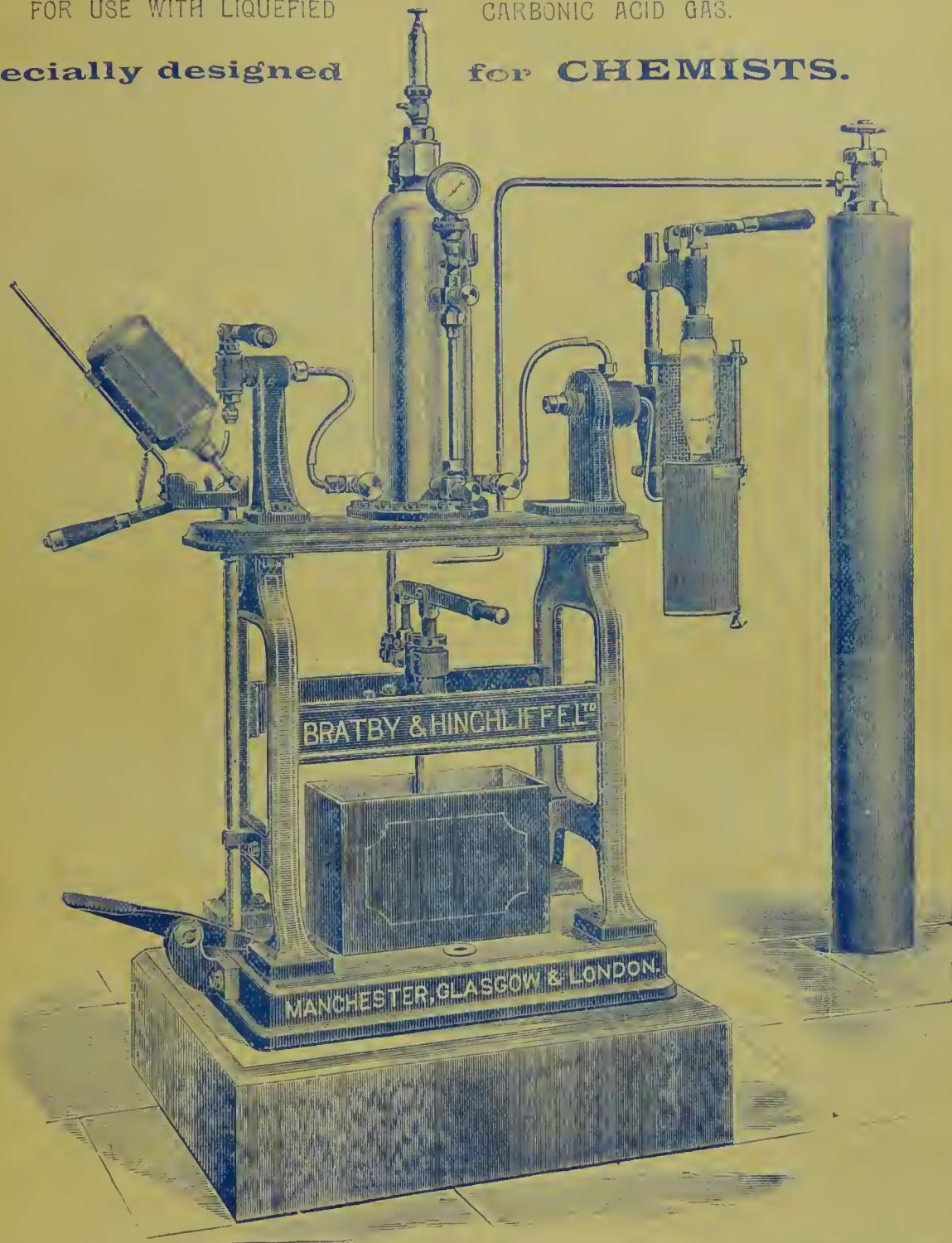
# The "EFFERVESCENT" Soda Water Plant

FOR USE WITH LIQUEFIED

CARBONIC ACID GAS.

**Specially designed****for CHEMISTS.**

This Apparatus has been specially designed for Chemists and those having a large retail trade. It requires no fixing, and produces Aerated Waters of the highest quality at a very small cost.



Our NEW ILLUSTRATED CATALOGUE is now ready—the largest and most comprehensive ever issued. Copies may had free on application.

Cable and Tele-  
graph Code.Wicket  
Wigwam

## DESCRIPTION.

- No. 1—Apparatus complete, with Syphon Filler, Turnover Bottling Machine, but without Gas Tube, to produce  
30 dozen bottles per hour .....
- No. 2—Apparatus complete, with Syphon Filler, Turnover Bottling Machine, but without Gas Tube, to produce  
50 dozen bottles per hour .....

## PRICE.

£40 0S.  
£50 0S.

We supply Liquefied Carbonic Acid Gas in tubes at the lowest market price.

## Bratby & Hincliffé, Ltd.,

81, Robertson St., GLASGOW.

SANDFORD STREET, MANCHESTER.

146, Minories, LONDON, E.

# Gold Medal Soda Water Plants

## The "ADVANCE" Plant.

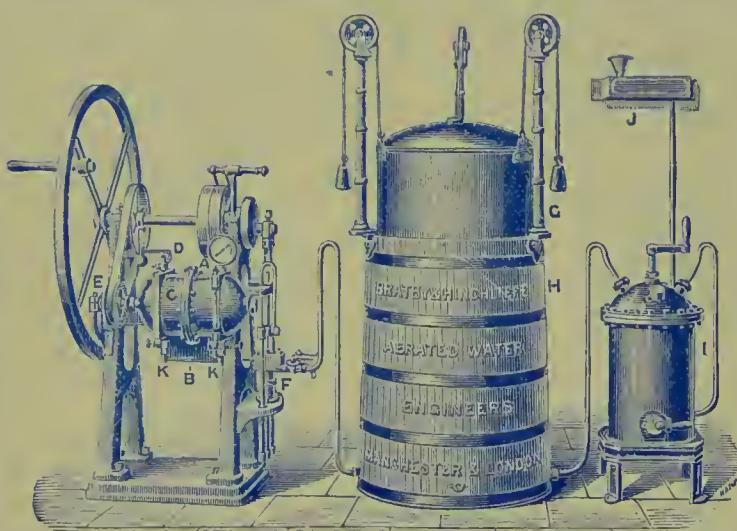
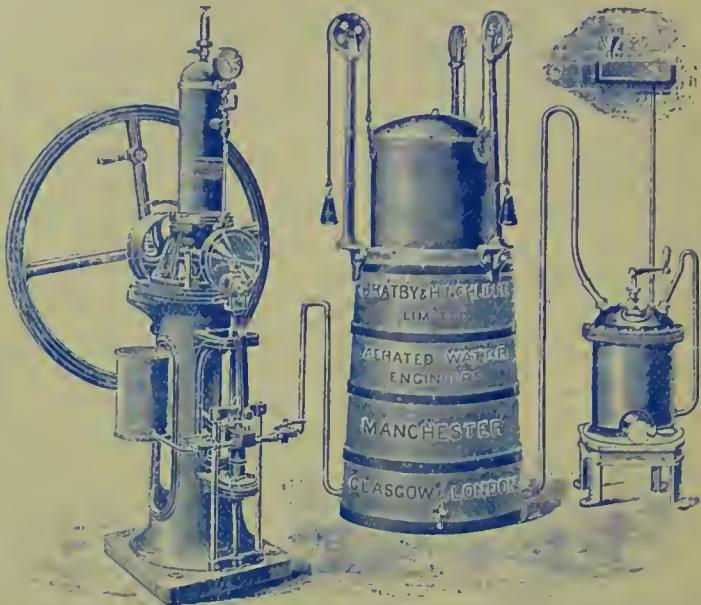
THIS plant has been specially designed for the use of Chemists, Hospitals, &c. It is very compact, occupies very little space, and is strongly recommended where a turnout is required of from 100 to 400 dozen per day.

The working parts are few, simple, and durable.

Full instructions to work and fix these plants are sent out free.

### PRICE

Complete, with Soda Water Machine,	£48
Gasometer, and Generator .....	
Piping, £3 extra.	



## The "CRITERION" Plant.

FEW plants have ever gained such a world-wide reputation as our "Criterion" for compactness, neatness, durability, and producing power, and we venture to state they have no equal. These plants are now working in all parts of the world, and give every possible satisfaction, which is fully testified by the number of unsolicited testimonials we have received in their favour.

### PRICES.

**No. 1 Plant.**—Complete with Soda Water Machine, Gasometer and Generator ..... £56 13s.  
This Plant will produce 600 dozen full size bottles per day.

**No. 2 Plant.**—Complete with Soda Water Machine, Gasometer, and Generator ..... £68 3s.  
This Plant will produce 800 dozen full size bottles per day.

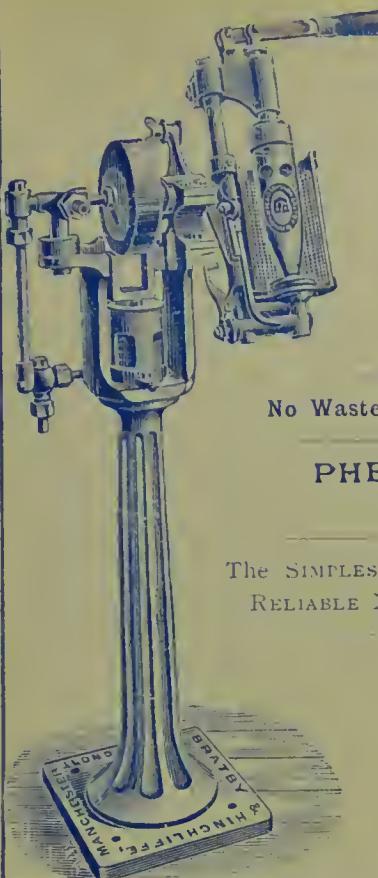
Complete set of Piping, £3 extra.

**SPECIAL NOTICE.**—Please write for our New ILLUSTRATED CATALOGUE—Post free.

**BRATBY & HINCHLIFFE, Ltd., Aerated Water Engineers,**

81, Robertson St., GLASGOW. SANDFORD STREET, MANCHESTER.

146, Minories, LONDON, E.



THE  
"MONARCH"  
TURNOVER FILLING  
MACHINE.

This machine fills and syrups "Codd's" and all other internally stoppered bottles at the rate of 60 dozen per hour.

The syrup pump is fitted with a glass barrel and is perfectly reliable.

No Waste of Water or Syrup.

PHENOMENAL  
SALES.

The SIMPLEST, QUICKEST, and MOST RELIABLE MACHINE in the Market.

~~£38.2~~ PRICES.

Complete with Syrup Pump,

**£9 9s.**

Without Syrup Pump,

~~£5.00~~ **£6 6s.**

THE  
"COLONIAL"  
TURNOVER FILLING  
MACHINE.

For all kinds of internally-stoppered bottles at the rate of 60 dozen per hour.

Snifts perfectly.

No Splashing.

No Water or Snift  
Valves to replace  
or get out of order.

Syrup Pump perfectly  
reliable.

PRICES.

Complete with Syrup Pump,

**£8 10s.**

Without Syrup Pump,

**£5 10s.**



COUNTER  
FOUNTAIN

Specially designed for use in connection with our Portable Cylinder. It is fixed to the counter of Bars, Refreshment Rooms, &c. In drawing the Soda Water, the glass bottle is held up to the nozzle by the hand, or by placing it in the bottle rest and raising it by the treadle.

PRICES.

Complete as shown, with tray for draining, two bottles (wired) and treadle, Brass, best, burnished ..... **£9 9s.**  
Ditto, silver-plated ..... **£10 10s.**

This fountain is very substantially made and forms a very attractive ornament.

PORTABLE  
CYLINDER.

The Cylinder is charged with plain filtered water and placed on the rocker; the gas from the tube is then slowly admitted, and the cylinder rocked backwards and forwards quickly so as to mix the gas and water together. It is very compact and simple.

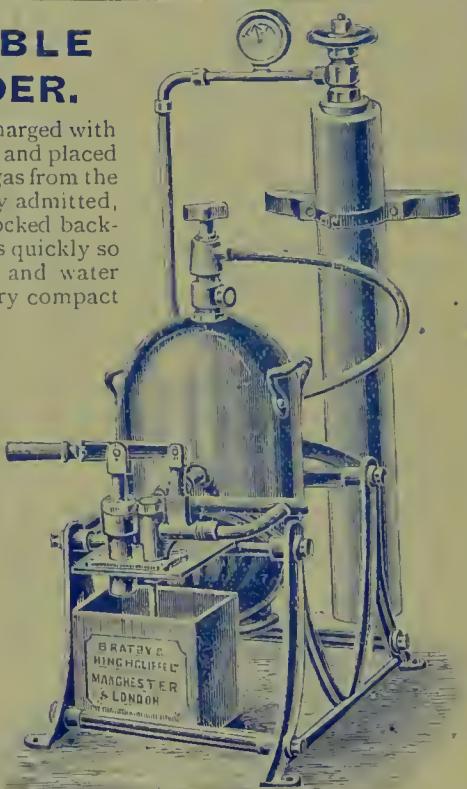
PRICES.

6 gall. copper cylinder, tinned... **£5 10**

Cast-Iron Rocker **£1 2 6**

Water Pump **£4**

Flexible Pipe Pres.Gauge and Connections **£2 10**



**BRATBY & HINCHLIFFE, Ltd., Aerated Water Engineers,**

81, Robertson St., GLASGOW.

SANDFORD STREET, MANCHESTER.

146, Minories, LONDON, E.

# Glass AND Stone Bottles.



AWARDED



COLD MEDAL

MELBOURNE, 1889.

QUOTATIONS given for any kind of patent or ordinary Cork Bottles.

Please write at once for Prices, stating quantity required.

STONE BOTTLES from 9/- per Gross upwards.



## Syphons.

PURE BLOCK TIN TOPS  
GUARANTEED.

Price 1/6 Each

20,000 ALWAYS IN STOCK.

THE CHEAPEST AND BEST SYPHONS  
IN THE MARKET.



Bratby & Hincliffé, Ltd.,

81, Robertson St., GLASGOW.

SANDFORD STREET, MANCHESTER.

146, Minories, LONDON, E.

# THE "HORNSBY-AKROYD" PATENT SAFETY OIL ENGINE.

Royal Agricultural Society of England's  
**Great Trials of Oil Engines**

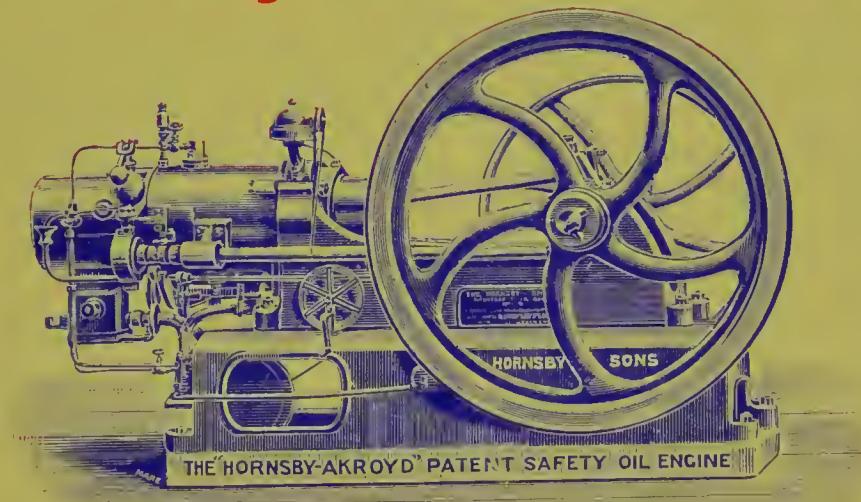
AT CAMBRIDGE, JUNE 18TH TO 25TH, 1894.

Fixed Oil Engines

**Hornsby First Prize £50**

Portable Oil Engines

**Hornsby First Prize £50**



EVERWHERE ACKNOWLEDGED TO BE

**The Simplest and Best Oil Engine in the World!**

*Not Affected by Coal or Gas Works' Strikes.*

*No Lamp Required after Starting.*

*No Ignition Tubes which require Frequent Renewal.*

*No Electrical Apparatus (liable to get out of order, and requiring constant attention).*

#### COST OF WORKING—

**Less than One Halfpenny per Hour per Actual Horse-Power.**

Made both Fixed and Portable, and now being designed for Launches, Yachts, Barges, Traction Engines, Road Rollers, Fire Engines, &c.

*Repeat Orders and Testimonials constantly being received from all parts of the world.*

**R. Hornsby & Sons Limited, Grantham, England.**

*London Office—75a, Queen Victoria Street E.C.*

# THE "HORNSBY-AKROYD" PATENT SAFETY OIL ENGINE.

*Royal Agricultural Society of England,*

*Cambridge Trials, 1894—*

**First Prize of £50 for Fixed Oil Engine,**

**First Prize of £50 for Portable Oil Engine,**

Confirming previous Honours, including

## Highest Award and Medal

At the World's Fair, Chicago,

*With the following Report of the Judges:*

"Excellently designed, carefully made Oil Engine, capable of using an oil of either a high or low flashing point, and displaying many novel and ingenious features in its construction."

---

## Gold Medal

At the South African Exhibition Kimberley.

## The Silver Medal

Of the Royal Danish Agricultural Society

(The Highest Prize Awarded for Oil Engines), after an exhaustive Trial.

## The Silver Medal

Of the Agricultural Society of Holland.

## The Silver Medal

Of the Penang Agricultural Society

(Straits Settlements),

AND MANY OTHERS.

**CHINNERY'S**

PATENT PORTABLE IMPROVED

# Mineral Water Machines,

*For rapidly Aerating and Serving all kinds of Beverages.*

Complete Apparatus for making by liquified Carbonic Acid Gas,  
Bottling and Syphon Filling.

(Patented in Great Britain, France, Germany, Austria, Belgium, United States of America, India and the Colonies, &c.)

SILVER MEDAL:

EDINBURGH INTERNATIONAL  
EXHIBITION, 1890.

GOLD MEDAL:

KIMBERLEY (South Africa)  
EXHIBITION, 1892.

GOLD MEDAL:

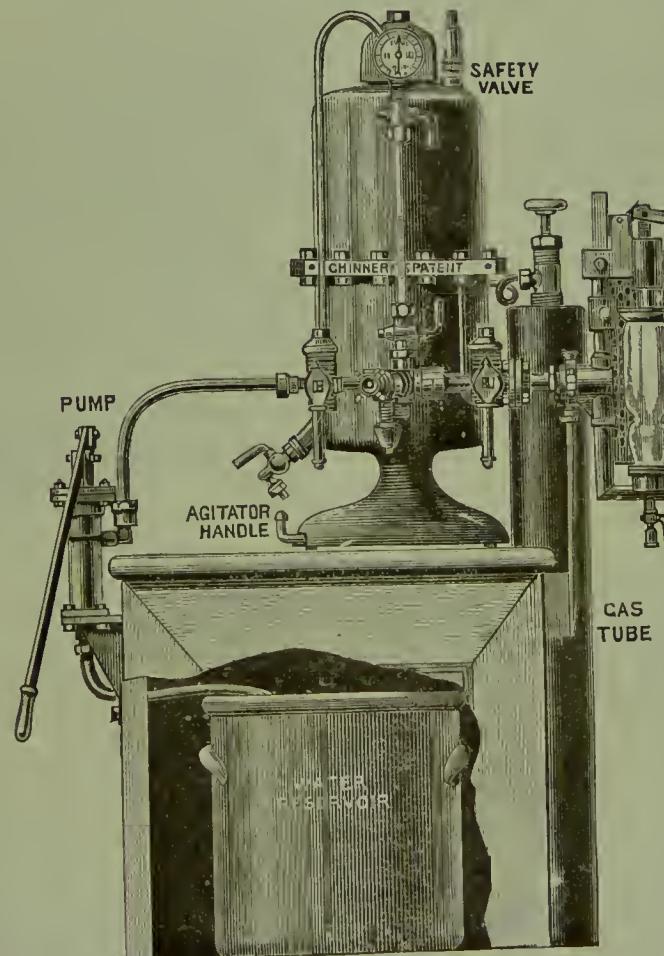
LONDON FOOD AND COOKERY  
EXHIBITION, 1890-91.

Particularly adapted for

CHEMISTS, HOTELS, RESTAURANTS,

\* RAILWAY REFRESHMENT ROOMS,

\* CONFECTIONERS, CLUBS,



STEAM and SAILING SHIPS,

VACHTS, EXHIBITIONS,

\* \* HOSPITALS.

MILITARY MESSES,

CATALOGUES AND TESTIMONIALS Post Free from  
**Chinnery & Co., Chatham, England.**

SPECIAL DISCOUNT TO SHIPPERS.

[SEE OTHER SIDE.]

# MINERAL WATERS AT A NOMINAL COST

BY MAKING YOUR OWN WITH

## CHINNERY'S

Patent PORTABLE Improved

# MINERAL WATER MACHINES

#### THEIR CHIEF ADVANTAGES ARE:—

**ECONOMY**—Because their prime cost is fully 75 per cent. less than any other machines of similar capacities.

**PURITY**—Because they contain distinct glass, enamel, or porcelain liners, capable of being removed and cleaned.

**DURABILITY**—Because they are constructed of gun metal.

**SAFETY**—Because they are tested to an hydraulic pressure of 300 lbs. to the square inch.

**RAPIDITY**—Because thorough aeration is obtained in a few minutes.

**CAPACITY**—Because by connecting the water main with the machine, the supply of aerated water can be made constant and almost automatic.

**ADAPTABILITY**—Because they are adapted for either serving direct into glasses, or filling bottles or charging syphons in anticipation of requirements, and for use with Liquified Carbonic Acid Gas, at a cost for aeration of under one penny per dozen 10 oz. bottles, and threepence per dozen London Syphons, or where and when such Gas cannot be obtained, with ordinary simple chemicals, easily obtainable at all chemists, at a prime cost of ninepence per five dozen Split Sodas; or Lemonade, Ginger Ale, Soda and Milk, and other beverages, produced at less than one halfpenny per glass.

**INVALUABLE** to up country stations to which cost of transit is excessive, and breakages heavy.

#### NET CASH PRICES.

Adapted for Chemicals only and serving on draught or bottling direct from the tap.

12 Pint Machine ...	...	...	...	...	...	...	...	...	...	£22	0	0
24      "	...	...	...	...	...	...	...	...	...	28	0	0
36      "	...	...	...	...	...	...	...	...	...	31	0	0

Adapted for both Chemicals and Liquified Carbonic Acid Gas. Complete Plants  
Fitted with Pumps capable of making and filling.

150 doz. 10 oz. Bottles or 500 London Syphons per day	...	...	...	...	...	...	£34	0	0
300      "      " or 1000      "      "	...	...	...	...	...	...	41	0	0
500      "      " or 1500      "      "	...	...	...	...	...	...	45	0	0

Without Syphon Fillers, £3 less.

Where the pressure of water on the mains is 50 lb. or more no pump is required, so that the cost is about 10 per cent. less than above prices.

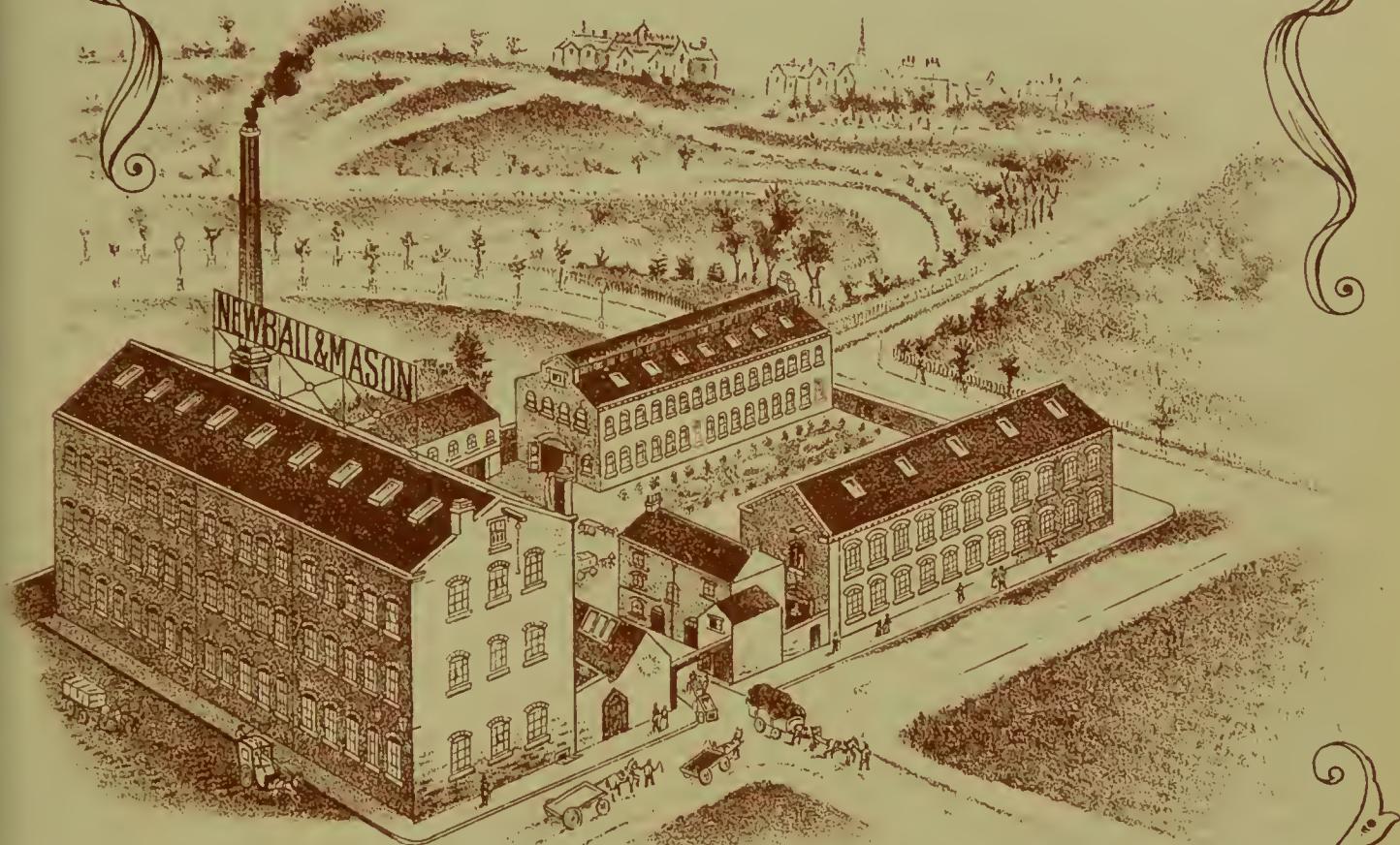
These Machines can be had on the **Hire Purchase System**, so as to permit of satisfactory trials of them before completing payment, and they are now in daily use at London Hospitals, Chemists, Public Institutions and Places of Entertainment, Hotels, Confectioners, Grocers, Mineral Water Manufacturers, and on Board Ship. They require no skilled labour, and can be fixed to the usual Bottling, Syruping, and Corking Machines of others makers.

**CHINNERY & CO.'S CHIEF OFFICE AND WORKS, CHATHAM, ENGLAND.**  
**SPECIAL DISCOUNT TO SHIPPERS.**

PRIZE MEDAL JAMAICA EXHIBITION, 1891.

TWO GOLD MEDALS AND SPECIAL FIRST  
AWARD, TASMANIAN EXHIBITION, 1891.

HIGHEST AWARD CHICAGO EXHIBITION, 1893



Established 1850.

# NEWBALL & MASON

Manufacturing Chemists  
and Botanic Druggists

INVENTORS OF EXTRACTS FOR MAKING TEMPERANCE BEVERAGES

## Hyson Green Works, NOTTINGHAM.

TELEGRAMS: "EXTRACT, NOTTINGHAM."

TELEPHONE NO. 1532.

Don't buy  
Imitations  
of  
MASON'S EXTRACT.

Popularity  
the Test  
of Success.



Beware of Worthless Imitations! —

• • • Order MASON'S.

ALL THE LEADING WHOLESALE HOUSES STOCK THESE GOODS.



ALSO MAKERS OF  
MASON'S EXTRACT OF DANDELION  
SARSAPARILLA  
HOPS  
GINGER

FOR GINGER ALE

MASON'S LEMONINE

HOREHOUNDINE

CIDERINE

FOAMINE

WINTER EXTRACT

COMPOSITION ESSENCE.

Compositon Essence is sold in bulk; Sample and lowest price on receipt of business card.

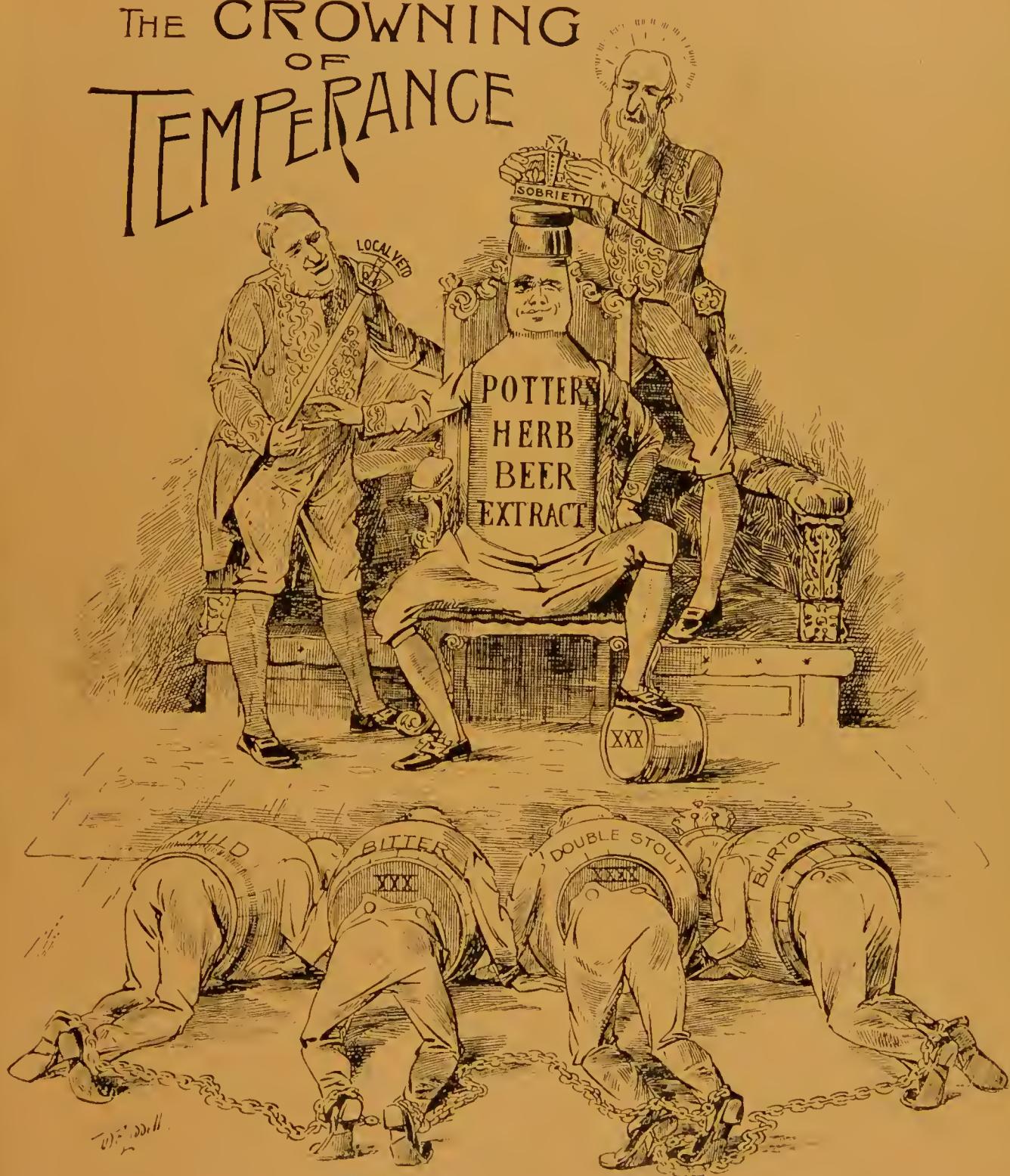
Newball & Mason, BOTANIC DRUGGISTS,  
HYSON GREEN WORKS, NOTTINGHAM.

NO OTHER  
EXTRACT  
MAKES  
BEER  
LIKE IT.

IMITATED  
BUT NOT  
EQUALLED



# THE CROWNING OF TEMPERANCE



**POTTER & CLARKE,**

5, 6 & 7 Raven Row, Artillery Lane, London, E.

# HEALTH WITHOUT PHYSIC

GAINED BY DRINKING

# POTTER'S HERB BEER

## EXTRACT.



FACSIMILE OF FRONT OF CARTOON.

A SIXPENNY BOTTLE will make  
EIGHT GALLONS  
of Sparkling, Exhilarating, Stimulating  
**NON-INTOXICATING HOP-BITTERED ALE.**

Its Tonic Properties are obtained by the inclusion of Hops, Dandelion, Horehound, and Gentian in its manufacture, while suitable Aromatics are blended in order to make a

**Palatable and Pleasant Beverage.**

POSTERS AND HANDBILLS SENT WITH ALL ORDERS.

In 6d. Bottles at 3s. 6d. per Dozen.

Gross Lots at 39s., Carriage Paid.

HERB BEER EXTRACT IN BULK, per lb. 8d.; per cwt. 60s. (1 cwt. Casks, 56s.)

SAMPLES AND SPECIAL QUOTATIONS FREE FROM

**POTTER & CLARKE,**  
5, 6 & 7 Raven Row, Artillery Lane, London, E.



“Firm Butter.”

## You should remind the Farmers' Wives.

You either have a regular demand for TOMLINSON & Co.'s BUTTER POWDER, or you have sold it one time or another, we feel certain; as, for 50 years we have had a large and increasing demand for the preparation. We have always kept up the standard and purity of the Powder, advertising in suitable Dairy and Provincial Papers, also supplied our Agents with attractive Printed Matter.

We have made special arrangements to supply the purest and most required Dairy Helps; the whole of our Preparations have been before the Dairy Interest some time, in all grazing countries, and their quality and usefulness approved. They comprise

TOMLINSON & Co.'s BUTTER POWDER; TOMLINSON & Co.'s BUTTER COLOUR; TOMLINSON & Co.'s “PRESERVATIVE”; TOMLINSON & Co.'s CHEESE COLOUR; TOMLINSON & Co.'s CHEESE RENNET; TOMLINSON & Co.'s RENNET ESSENCE.

Stocked by Wholesale Houses, or Trade Terms direct on application.

— PLEASE SEE OVER FOR PARTICULARS. —

# IMITATORS!

Dear Sir,—

TOMLINSON & Co.'s BUTTER POWDER is the recognized preparation of its kind, and a genuine one for the purposes recommended. It has now been sold largely by Chemists all over the Country for the past 50 years, we have always kept up the purity and standard of the article, advertised it well, made the retailing of it profitable, and assisted our Agents with Printed Matter, &c.

Although it is a preparation only useful to comparatively few people, and not in every day demand, yet several have thought well to imitate, we know our make will hold its own against any others, but we would warn imitators THAT ANY INFRINGEMENT OF OUR LABELS, STYLE OF PACKING, &c., THAT IS BROUGHT TO OUR NOTICE, WILL BE LEGALLY DEALT WITH. Please see that "Trade Mark," as at foot hereof, is on each package, without which none are genuine.

Sizes:—3d, 6d, 1/-, 2 6, & 7/6. Through all Wholesale Houses or direct.

Yours truly,

ONLY ADDRESS:—

Mint St. Chemical Works,  
LINCOLN, England.

Established 1842.



Trade Mark on each Genuine Package.

HUNDREDS of copies can be made by

**ELLAMS DUPLICATOR.**

A machine of this description is an absolute necessity for all departments of office or secretarial work, as there is now scarcely any one who does not require to send out circulars and other announcements for which copies are required.



*Invaluable for Requisitions for Tenders, Specifications, Bills of Fare, Bills of Quantities, Price Lists, Lists of Articles for Sale, Notices of all descriptions.*

**ELLAMS DUPLICATOR** is a stencil process, and the stencil is made by writing with a mercury-hardened rounded steel style upon a large specially prepared steel plate, 200 cuts to the inch, which is 25% finer than the best plate hitherto made. It is this fineness which gives such unequalled smoothness and freedom in writing, and such a perfect copy. It also necessitates that every other part of the apparatus such as style, stencil paper, ink and roller, shall be of equally excellent quality. Every attention has been given to make each of these articles the most perfect of its kind, and we can confidently put the **DUPLICATOR** forward as being unique in its excellences.

It is suitable for **TYPEWRITING** with **NO ALTERATION**, as the writing plate is separate.

**ADVANTAGES.**

1. The largest, finest, and hardest writing plate ever made.
2. Writes as easily as a lead pencil, and is perfectly cleanly.
3. Makes unlimited copies in any colour with great rapidity.
4. Specially suitable for typewriting, and is recommended by the typewriter companies.
5. A separate writing plate which allows writing and printing to proceed simultaneously.
6. No special skill required. A boy can use it.

**PRICE LIST.****MACHINES**

	Note.	Quarto.	Foolscap.
For Handwriting alone, 1½in. plate.....	30/-	40/-	42/-
" " 3in. plate .....	40/-	48/-	50/-
For Typewriting alone .....	30/-	40/-	42/-
For Hand and Typewriting combined, 1½in. plate.....	40/-	52/-	55/-
" " 3in. plate.....	50/-	60/-	63/-
<b>STENCIL PAPER</b> , Hand or Type, per Quire .....	2/6	3/6	4/6

10% off ½ ream, 15% off a ream.

INK:—Black.....	per small Tube, 2/6.....	large Tube, 6/6
Blue, Purple, Green and Red, " "	3/6.....	" 9/-

**SPECIAL DUPLICATORS MADE FOR HOT CLIMATES.**

Each Duplicator is complete with all requisites, and packed in a thoroughly substantial hardwood Box.

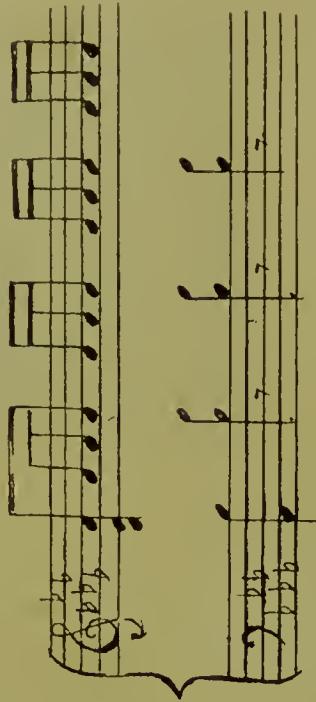
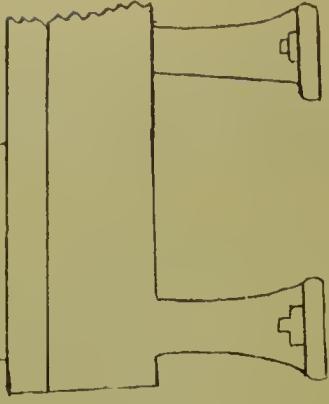
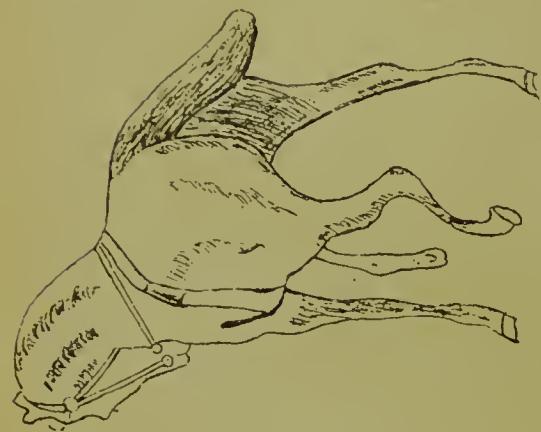
**ELLAMS DUPLICATOR CO., 12, King Street, Cheapside, LONDON, E.C.**

This is the style of work produced by

## ELLAMS DUPLICATOR

What could be a more perfect imitation of Typewriting? The value of a typewriter is trebled by using a "DUPLICATOR," by which hundreds of copies can be made, in any colour of ink, from one original, without any previous experience. 50 can be ready in a few minutes after writing, which is done precisely like writing an ordinary letter. It is indispensable to the office department of any business, Government Offices, Railway Companies, Corporations, Merchants, Banks, Engineers, Solicitors, Accountants &c.

It is an ENGLISH made apparatus of the best workmanship.  
Details of prices will be found on the other side. Illustrated catalogue will be sent on receipt of post-card.



## Use ELLAMS LETTER COPIER

Ensures clear even press copies from hands or from typewriting without blurring the originals  
10/6 LETTER SIZE 10/b

## THE DUPLICATOR

will enable you to make hundreds of copies of HANDWRITING, DRAWINGS &c or of TYPEWRITING (no special ribbon or pad) Always ready for immediate use & extremely simple to work. Machines made to suit ANY CLIMATE.

# THE TINPLATE DECORATING C° LIM°.

MELYN TIN WORKS, NEATH,

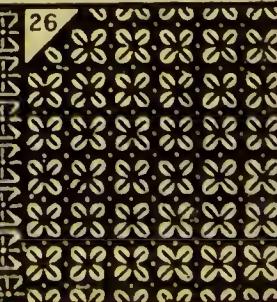
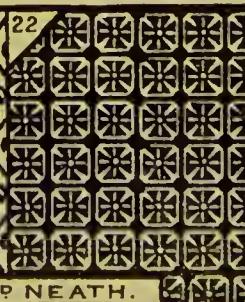
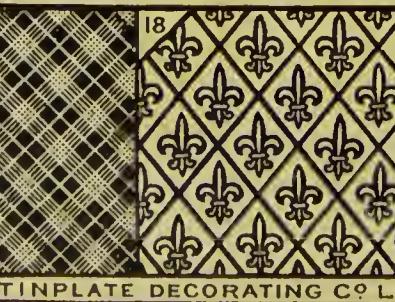
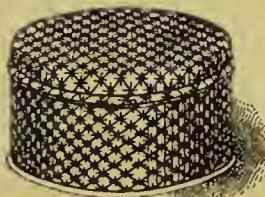
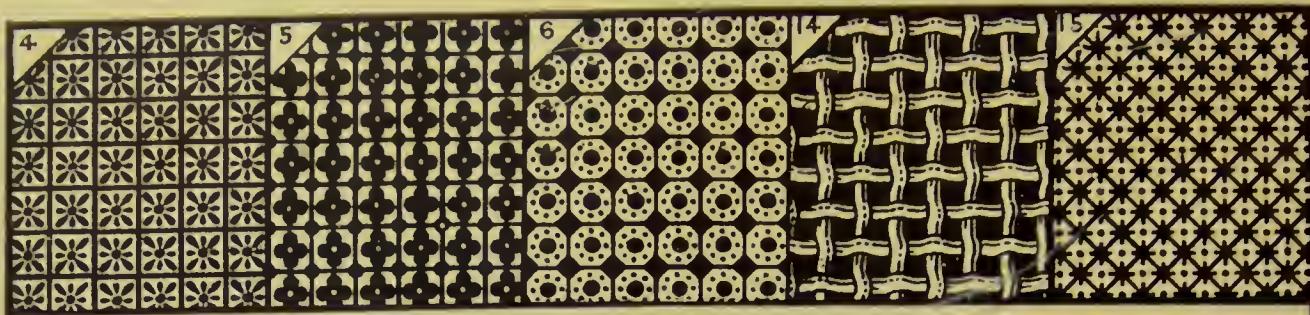


TEA CANISTERS  
AND  
BISCUIT BOXES  
OF ALL KINDS  
  
ESTIMATES FOR  
SPECIAL DESIGNS



TRAYS  
AND  
WAITERS  
PROVISION ~  
~ CANISTERS  
◎ OF EVERY ◎  
DESCRIPTION

METAL SHOW TABLETS ILLUMINATED IN COLORS



# Save Money!!!

## HOW?

By putting up your Goods  
*in*

Patent | Folding | Paper | Boxes.

**SAVES TIME AND LABOR.**

THEY ARE

**NEAT, CHEAP, and ATTRACTIVE.**

We can print Boxes in black or coloured inks; lithograph them in one or more colours; or block them in gold or silver.

Being made entirely by machinery, they are cheaper than hand-made boxes, and, being folding, they economise space.

They are capable of being printed all over, thus being valuable advertising mediums.

The accompanying figures explain the description of some of our packages.

We shall be pleased to quote you prices, with sample, on quantities of 1,000 and upwards, of boxes suitable to the goods you pack, if you will let us know the quantity and dimensions of the box required (length, breadth, and depth), and whether printed or plain.

**THE NATIONAL FOLDING BOX COMPANY, Limited,**

*LATE I. W. PARMENTER & CO., LTD.).*

The largest Folding Paper Box Manufacturers in the Kingdom,

**PRINTERS AND LITHOGRAPHERS,**

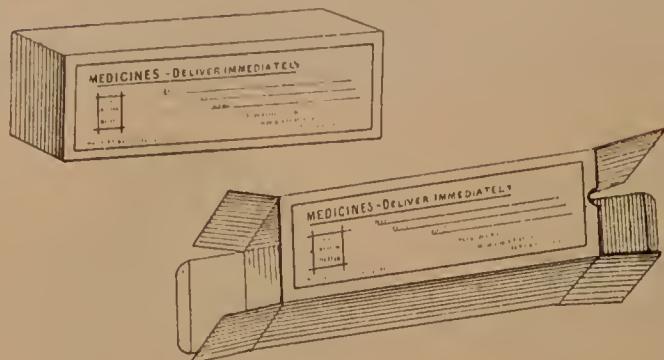
**7 & 8, KIRBY STREET, HATTON GARDEN, LONDON, E.C.**

**ESTABLISHED 1887.**

N.B.—We cannot supply less than 1,000 Boxes.

[P.T.O.]

## Some of our Specialities.



DRUG CASES.

From 2 to 16 oz., or special sizes.



SOAP BOXES.



For Bars, or 1 or 3 cakes of Toilet Soap.

## FOLDING CARDBOARD BOXES ARE USED BY THE FOLLOWING:

AUTOMATIC MACHINES.  
BAKING POWDERS.  
BISCUIT MAKERS.  
BOTTLERS.  
BUTTERMEN.  
CARTRIDGE MAKERS.  
CATTLE FOOD MAKERS.  
CANDLE MAKERS.  
CHEMISTS.  
CIGARETTE MAKERS.  
COMPOSITION MAKERS.  
CONFECTIONERS.  
DAIRYMEN.  
DRAPERS.  
DRUGGISTS.  
Egg MERCHANTS.  
FANCY GOODS.



GROCERS.  
HERBALISTS.  
HOSIERS.  
PATENT MEDICINES.  
PERFUMERS.  
PHOTOGRAPHERS.  
PROVISION DEALERS.  
SAUSAGE MAKERS.  
SCREW MAKERS.  
SEEDSMEN.  
SOAP MAKERS.  
STARCH MAKERS.  
STATIONERS.  
TEA DEALERS.  
TOBACCONISTS.  
WINE MERCHANTS,  
Etc., etc., etc.

THE TRADE SUPPLIED.

**The National Folding Box Company, Limited,**

(Late J. W. PARMENTER & CO., Ltd.),  
7 & 8, KIRBY STREET, HATTON GARDEN, LONDON, E.C.

[For particulars, please see other side.]

# SHOP FITTINGS.



**S**INCE we sent out the above Photograph representing our Premises for the Manufacture of **Shop Fittings, Show Cases, &c.**, we have received such support from our friends as to necessitate a considerable enlargement of the premises but being at the back cannot be shewn in the Photograph. We append a few additional unsolicited letters received from various friends who have entrusted us with their orders.

Liverpool being one of the most important Timber Ports in the U.K. we are able to purchase suitable wood of the highest quality on most favourable terms, and being also a centre of the Cabinet Making Trade, can secure experienced workmen. WE MAKE ALL OUR WORK ON THE PREMISES AS ABOVE, SEND OUR OWN WORKMEN TO FIX AND COMPLETE, and shall be glad to send a competent Foreman to consult on the spot with our friends, and then draw out complete plans, specifications, &c.

**EVANS, SONS & CO.,**

56, HANOVER STREET, LIVERPOOL  
(DRUGGISTS' SUNDRIES DEPARTMENT).

LONDON—

EVANS, LESCHER & WEBB.

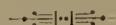
## Additional

### -TESTIMONIALS.-



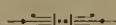
January 8th, 1894.

"Your fittings are very neat and well made. I am well satisfied with the turnout, your workmen were very kind and obliging"



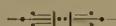
February 15th, 1894.

"Nest of Drawers received this afternoon, am very pleased with same."



April 4th, 1894.

"The Case answers my purpose very well and I compliment you on your good workmanship."



April 17th, 1894.

"Enclosed please find cheque in payment of Counter Show Case which arrived here, all safe, yesterday. It gives me great pleasure to state that I am thoroughly pleased with it. Not only do I find the workmanship elegant but *substantial* and it will prove I have no doubt, quite an ornament to my shop."

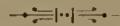


May 28th, 1894.

"Your man left here this morning after overhauling case, it is now in perfect order and I am well pleased at the way your workman did everything."

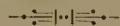
June 19th, 1894.

"As I have now opened my premises I am desirous of telling you that the manner in which you have carried out your contract has most thoroughly satisfied me. The workmanship is splendid and the appearance of the whole work is beautiful. I cannot say more than that I was fortunate in deciding upon your estimate in preference to others. Thanking you for the great satisfaction you have given me."



June 23rd, 1894.

"I write you a few lines to acknowledge the satisfactory way in which you have carried out the fitting of my new shop. The difficulties necessarily present, to convert an old cottage into an elegant little pharmacy have been overcome in a very great measure by the skilful way you have dealt with the fitting, making any structural defect quite a feature in shop-fitting elegance. Should you have any customers in —— wishing to see for themselves what you can do, I shall be very glad at any time to show them my shop, and shall be glad to recommend anyone who wishes to get 'economy with efficiency,' to place his orders with you. I feel this note would not be complete without mentioning the interest your fitters took in their work, especially your foreman. I had little opportunity of seeing his mates, as I was only present twice during the whole time they were at work."



June 25th, 1894.

"The cases came without any damage and I am very pleased with them."



We have permission to refer our friends to any of the writers  
of the above or many others who have entrusted us  
with their orders.

We herewith append a selection of some of our Show Cases, &c., &c., but of course we can manufacture to any design or measurement.

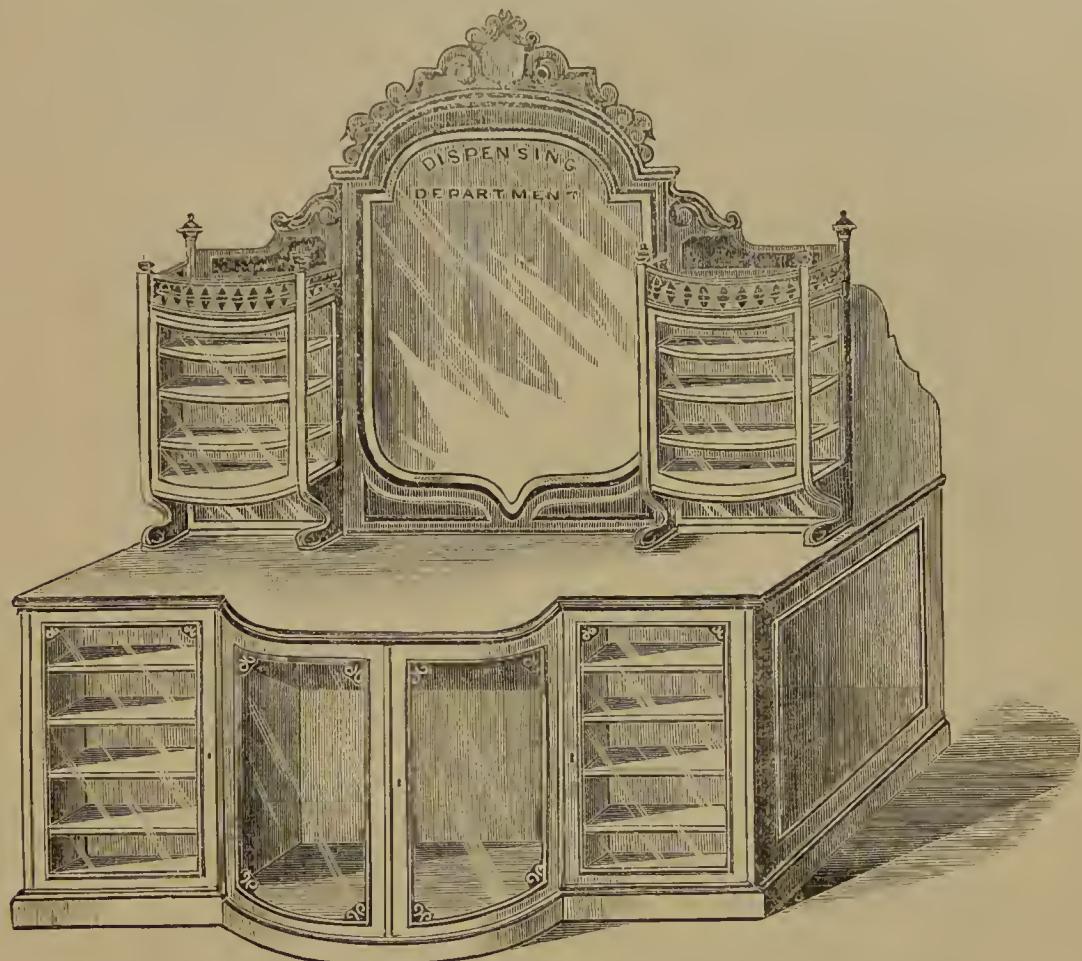


FIG. 40.

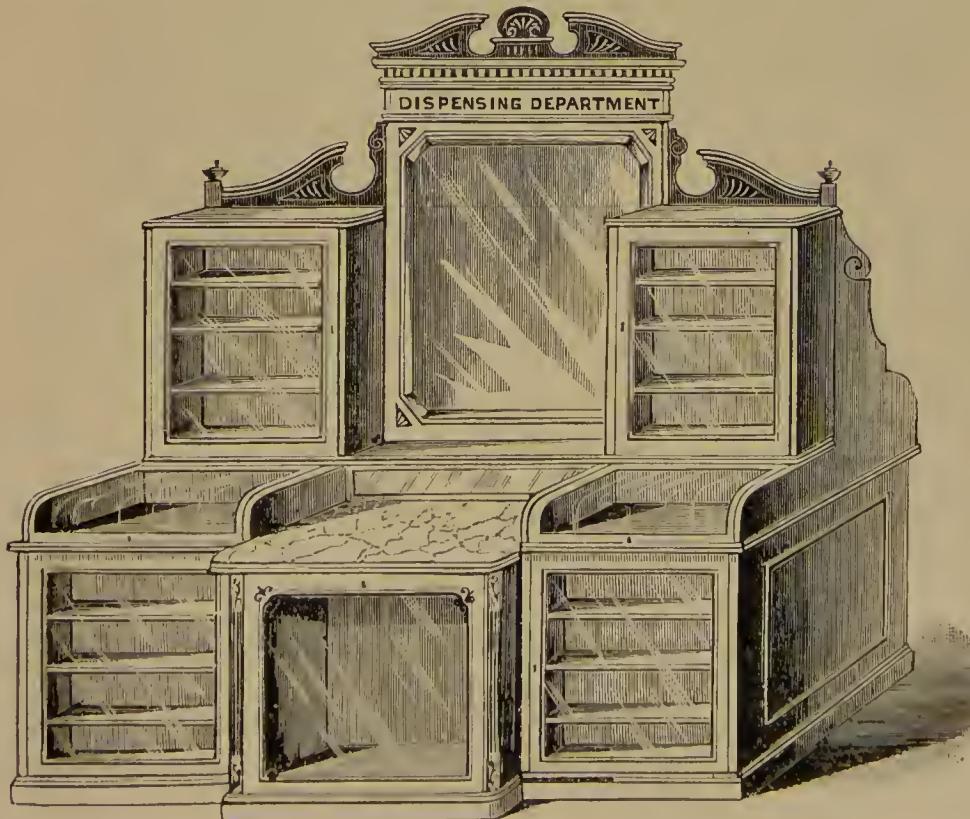


FIG. 41.

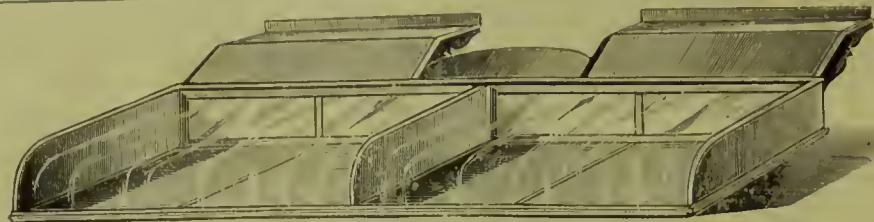


FIG. 42.

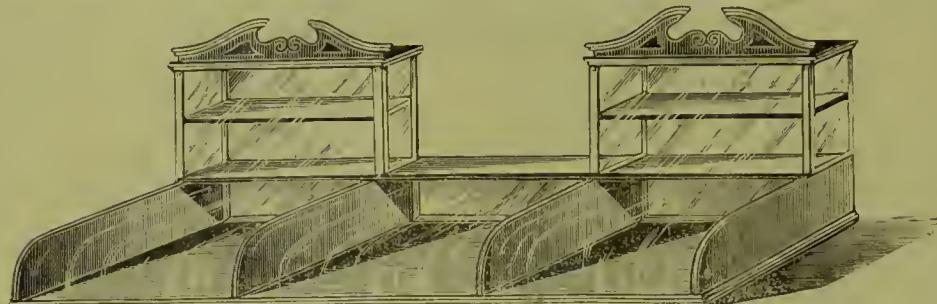


FIG. 43.

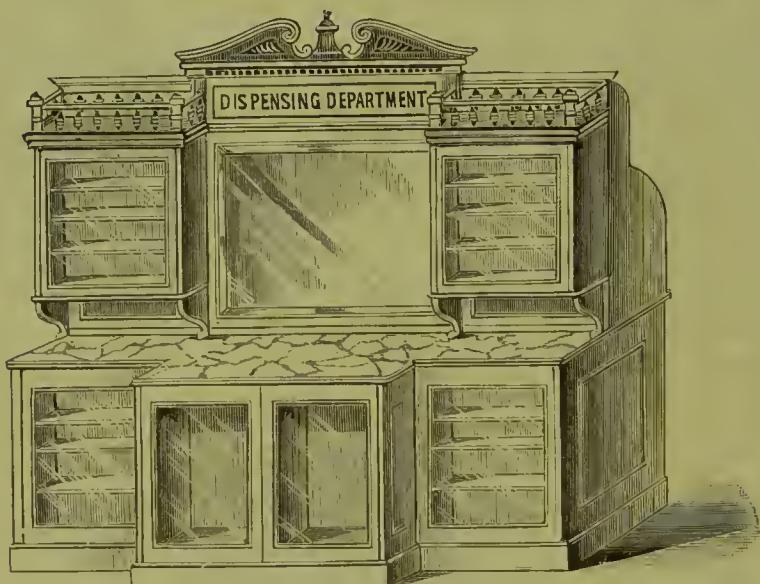


FIG. 44.

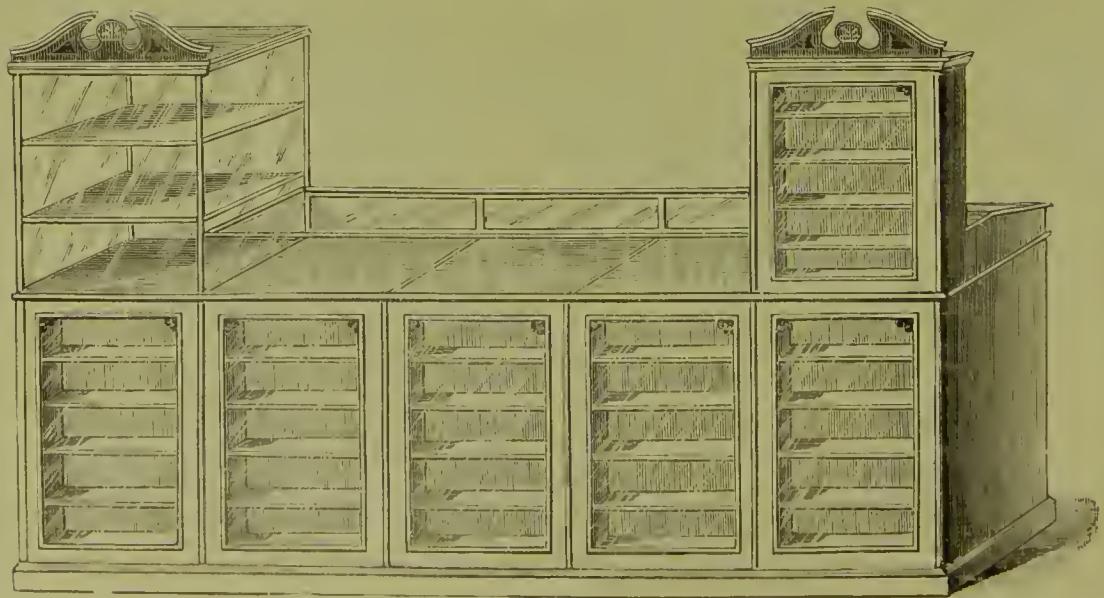
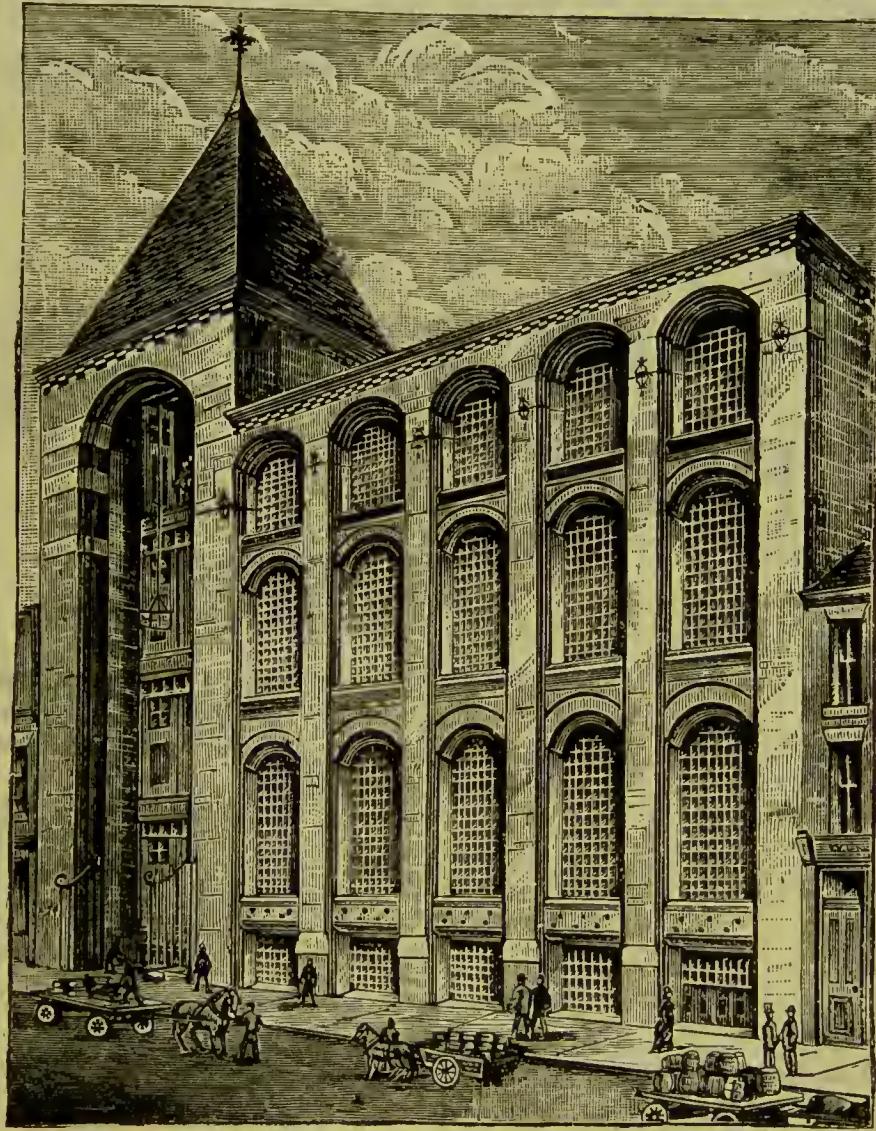


FIG. 45.

# TINCTURES.



**EVANS' TINCTURE HOUSE.**

The above represents the New Building erected for us in Wood Street, Liverpool, almost entirely for the manufacture of Tinctures, Concentrated Infusions, and Decoctions, the demand for which has so considerably increased of late years—not only for the **Home Trade**, but for **Export**—under the new Excise regulations.

For the Home Trade see our Price Lists, and we give special quotations to buyers in quantity. For Export we can now supply in Bond—duty free—in any quantity, and also other Alcoholic Preparations.

FOR FULL LIST, SEE OUR EXPORT PRICES CURRENT IN ENGLISH AND SPANISH

We need hardly say that we guarantee that they are made strictly according to British Pharmacopœia, and with selected drugs.

## EVANS, SONS & CO., LIVERPOOL.

LONDON: EVANS, LESCHER & WEBB.

CANADA: EVANS AND SONS (LIMITED).



# SAVAR'S

TRADE MARK



SOLD BY REGISTERED CHEMISTS ONLY!

## SAVAR'S

BREAST EXHAUSTERS,  
FEEDING BOTTLES,  
PERFUMERY,  
POMADES,  
ENEMAS,  
SOAPS.

**SAVAR'S** as a designation of any article is a guarantee that quality is best of its class.

NEW DRUGGISTS' SUNDRIES LIST, PUBLISHED APRIL, 1894,

Largely increased, and with numerous additional Illustrations.

SUPPLIED TO ANY REGISTERED CHEMIST ON RECEIPT OF BUSINESS CARD.

**EVANS, SONS & CO.**  
LIVERPOOL.

LONDON :  
**EVANS, LESCHER & WEBB.**

CANADA :  
**EVANS AND SONS, LIMITED.**



# FEEDING BOTTLES



## REDUCED PRICES.

For Complete List, we beg to refer to our Druggists' Sundries List, pages 47 to 50; but we call particular attention to the following, as most in demand. Those bearing the designation "Savars" are of guaranteed quality, and cannot be surpassed at the prices.

### THE BEST 2/- FEEDERS.

**SAVARS NO. 2.**

Bent, best quality, White Glass Bottle, with handsome gilt China Tops, Cork-lined, superior quality BLACK Native Indiarubber Fittings, Bottle Brush and Tube Brush, in handsome case (enclosed in plain protective covering).

17/- PER DOZ.

### THE BEST 1/- FEEDERS.

**SAVARS NO. 3.**

Bent, White Glass Bottle, with Porcelain Tops, Cork-lined, superior quality BLACK Fittings, Bottle Brush and Tube Brush, in handsomely-labelled boxes.

7/6 PER DOZ.

**SAVARS NO. 7<sup>A</sup>.**

WHITE Bent Flint Glass, Screw-Neck Bottle, with BLACK Indiarubber Fittings and Glass Unions, with Bottle and Tube Brush complete, each in a separate box.

7/6 PER DOZ.

### THE BEST -/6 FEEDERS.

**SAVARS NO. 5.**

Bent, Green Glass Bottle, Boxwood-topped Corks, with superior quality BLACK Native Indiarubber Fittings (12 in a neat partitioned box).

3/9 PER DOZ.

**SAVARS NO. 8.**

Bent, Green Glass, Screw-neck Bottle, with BLACK Fittings, complete.

4/- PER DOZ.

For those requiring a Cheap Feeding Bottle, we refer to the "Popular," at 32/- per gross, and the "Cornucopiæ" (Screw), at 42/- per gross, and with Special Discount for quantity, which can bear any name or address.

**EVANS, SONS & CO., LIVERPOOL.**

LONDON: EVANS, LESCHER & WEBB.

CANADA: EVANS AND SONS, LIMITED.

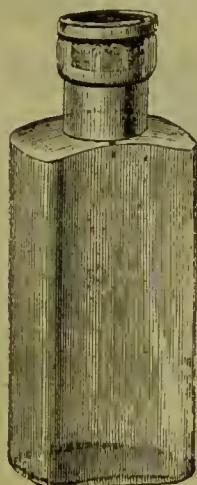
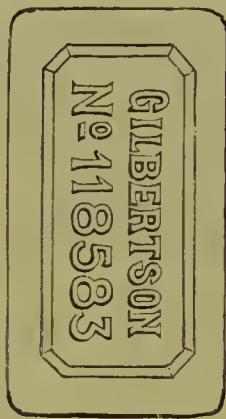
# GILBERTSON'S

(No. 118583)

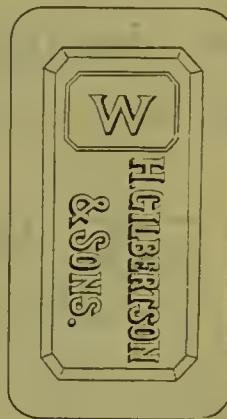
ORIGINAL AND SUPERIOR ROUND-CORNERED

# DISPENSING BOTTLES

ARE UNEQUALLED IN QUALITY AT PRICES CHARGED.

*Usual Discount. Crates free. Carriage paid. Casks for Export are charged, but delivered f.o.b.*GILBERTSON'S  
IMPROVED SALINE.

BOTTOM OF BOTTLE.

GILBERTSON'S  
DISPENSING.

BOTTOM OF BOTTLE.

GILBERTSON'S  
"G" SQUARES.

Purchasers will please insist that our Brands are on the bottom of above-shaped Bottles, which are a guarantee by the Inventors of uniform excellence.

## GILBERTSON'S NO. 118583 DISPENSING BOTTLES AS WELL AS "G" SQUARES

are made in Actinic Green, Amber, Fluorescent Tint of Blue (called Quinine Tinted), and White Flint.

ALSO SUPPLIED FROM STOCK, WITH  
FLAT, GLOBE OR CUT GLOBE STOPPERS, OUR OWN STOPPERING.

ILLUSTRATED PRICE LIST POST FREE ON APPLICATION.

**11 ST. ANDREW'S ST., HOLBORN CIRCUS, LONDON.**

Telegraphic Address—"FRANGIPANI LONDON."

# H. GILBERTSON & SONS,

MANUFACTURERS & DRUGGISTS' SUNDRIESMEN.

Goods bearing  
are unequalled  
at prices we



our Trade Mark  
in quality  
are now charging.



FIG. 491.



FIG. 118.



FIG. 115.



FIG. 116.



FIG. 140.



FIG. 131.



FIG. 429. FIG. 430.

## SOME OF OUR NOTED SPECIALITIES.

*Gilbertson's Medicine Tumblers with New Indelible Opaque Graduations and Customers' Names. Prices and Samples on application.*

**GILBERTSON'S "Little Rosebud's" Feeding Bottles** are fitted with Food Regulator, Tube and Bottle Brush, Glass Valve Tube, Transparent Union, and Armstrong's patent Self-cleansing, Non-collapsible Seamless Teats, complete in a handsome box. See illustrations below ...

Illustrated List.

Fig. 193A Page 29

**GILBERTSON'S Registered Wide Mouth Boat Shape Feeding Bottles.** Both Pottles and Teats are readily cleaned

Fig. 200 Page 28

**GILBERTSON'S Slipper Shape Poison Bottle**—the most characteristic in existence, as it will not stand up and can be easily recognised by its peculiar shape even in the dark

Fig. 125 Page 8

**GILBERTSON'S Perfect Inhaler**—recommended by Dr. William Hill, Specialist for Diseases of the Throat ...

Fig. 495 Page 33

**GILBERTSON'S Graduated Glass Measures.** Extra strong ...

Fig. 510 Page 35

**GILBERTSON'S Far Syringes, Indianrubber Ball** With Glass or Vulcanite Mounts ...

Fig. 429A Page 25

Fig. 430 Page 25

**GILBERTSON'S Actinic Green Lavender Salts** Wide Mouth, Flat Globe Stoppered ...

Fig. 131 Page 8

**GILBERTSON'S White Flint Moulded Narrow Mouth Stoppered Rounds.** Our own stoppering ...

Fig. 140 Page 14

**GILBERTSON'S Boxwood Top Corked W.M. Rounds** ...

Fig. 116 Page 14

**GILBERTSON'S Boxwood Cap' Pomade Bottles** ...

Fig. 115 Page 13

**GILBERTSON'S Metal Screw Pomade Bottles** ...

Fig. 118 Page 13

**GILBERTSON'S "Ideal" Hot Water Bottles...** ...

Fig. 491 Page 32



FIG. 465.



"Self-cleansing" Teat

## IDEAL BED PAN.

(PATENT APPLIED FOR.)

**Great Advantage—"CLEANLINESS."**

The top or seat is so arranged that it is firmly fixed when in use, but easily removed to cleanse. Made in best quality Earthenware. Three usual sizes. Prices on application.



FIG. 200.

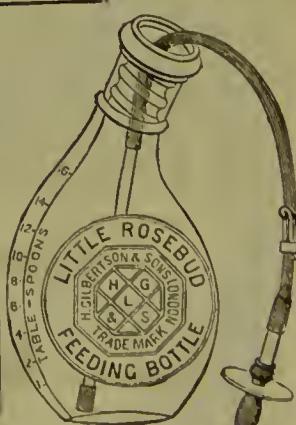


FIG. 193A.

Telegraphic Address—"FRANGIPANI LONDON."

# SUGAR-COATED PILLS.



## " BALLOON PILL "

Cut Stopper,  
Neck, Foot, and  
Pedestal.  
Containing 3,000  
" Little  
Cathartic  
Granules."



## " PATTERN " VASE.

Height ... 11 ins.  
Width ... 3½ ins.  
Depth ... 2½ ins.  
With 3,000  
Granules,  
Each 15/6 net.



Height about 11 ins.

CACHOUS, "Aromatic for the Breath," Ornamental Patent Glass Vases, with gilded and coloured Labels for the Counter, 6s. each. These Cachous are coated with Sugar, silvered and burnished.

Vase with Label in Gold and Colours.  
Height 9½ ins.  
Each, net, 3/8 (nearly 1 lb.)

The "Little Cathartic Granules" are small sugar-coated pills containing aloin, podophyllin, jalapin, hyoscyamus, nux vomica, and capsicum. We can speak to their activity and to the immunity from griping, &c. Their small size will be a recommendation in the eyes of the great majority of patients.—*Med. Press and Circular*, 23 Nov., 1892.

## W. R. WARNER & CO.'S QUININE PILLS.

SPECIAL REDUCED RATES, 1893.

Half-grain per 1,000, 3/10	.. .. ..	Two Grains per 1,000, 8/-	.. .. ..	Five grains, per 1,000, 20/-
One Grain	5/9	.. .. ..	Three	(Gelatine coated only.)

(These rates apply to 1,000 and upwards of any one Pill.)

Superiority and Reliability of Sugar-coated Quinine Pills prepared by W. R. WARNER & CO. QUININE PILLS of our make are prepared from Sulphate of Quinia noted for its purity and excellence. Each Pill contains the full complement of material as expressed on the label, without the necessity of adding any excess to compensate for impurities. They are perfectly soluble, and physicians can depend upon obtaining the full benefit of this valuable remedy in a pleasant form. Always specify "W. R. WARNER & CO.," and avoid the substitution of cheaper and inferior brands.

SUGAR-COATED QUININE PILLS.—I take the pleasure in testifying that W. R. Warner & Co.'s Quinine Pills are practically just what they claim to be, whether judged by analytical tests or by the therapeutic effect obtained from their use.

A. B. LYONS, M.D., Analytical Chemist, Detroit, Mich.

## VASES OF PILLS, Labelled as under, usually in Stock.

### SOLUBLE SUGAR-COATED ANTIBILIOUS PILLS, &c.

Aperient Pills	Compound Podophyllin Pills	Cough Pills	Female Pills	Pil. Rhel Co.
Cathartie and Liver Pills	Compound Rhubarb Pills	Digestive Pills	Liver Pills	Podophyllin Granules
Cochia Pills	Compound Steel Pills	Dinner Pills	Neuralgic Pills	Tonic Pills

The numbers refer to Warner's List (free on application to any part of the World), in which the formulae will be found.

No.	*Vase of 1,000 Pills	Without Vase	£ s. d.	No.	*Vase of 1,000 Pills	£ s. d.	Without Vase
25.	Pil. Aloes et Asaf. B.P. (W. R. Warner & Co.)	0 9 4	0 7 0	120.	Pil. "Cathartic and Liver"	0 6 4	0 4 0
27.	Pil. Aloes et Ferri B.P.	0 9 0	0 6 8	125.	Pil. Rhei Co. B.P. (small)	0 9 4	0 7 0
30.	Pil. Asafoet. Co. B.P.	0 10 6	0 8 2	126.	Pil. Cathart. Co. (active—1 lb.)	0 7 10	0 5 6
36.	Pil. Coloc. et Hyos. B.P.	0 12 0	0 9 8	129.	Pil. Digestiva	0 13 0	0 10 8
38.	Pil. Ferri Carb. B.P.	0 10 6	0 8 2	134.	Pil. Podoph. et Hyos.	0 19 6	0 17 2
39.	Pil. Hydarg. grs. iii. B.P.	0 11 4	0 9 0	136.	Pil. "Chalyhoate" (Blaud.)	0 13 0	0 10 8
41.	Pil. Ipecac. c. Scilla B.P.	0 11 0	0 8 8	142.	Pil. Cathart. Co. ("Little Cathartic Granules"), smallest vase	0 5 6	0 4 0
49.	Pil. "Antibilious" Veg.	0 11 6	0 9 2	143.	Pil. Podophyllini ½ gr.	0 12 0	0 9 8
55.	Pil. Cathart. Co. (Vegetable)	0 11 6	0 9 2	145.	Pil. "Rheumatic"	0 18 0	0 15 8
58.	Gran. Ext. Nuc. Vomicæ	0 8 4	0 6 0	150.	Pil. Cochiae (W. R. Warner & Co.)	0 6 10	0 4 6
63.	Gran. Podophyllini ½ gr.	0 9 0	0 6 8	151.	Pil. Hyd. c. Creta ½ gr. (small vase)	0 4 10	0 3 4
82.	Pil. Tonici	0 14 6	0 12 2	156.	Pil. Ext. Cocae grs. iii.	0 18 4	0 16 0
88.	Pil. Aperit. sine Calomel	0 13 0	0 10 8	160.	Pil. Syphilitic	1 6 6	1 4 2
91.	Pil. Coloc. c. Hyd. et Hyos.	0 13 0	0 10 8	163.	Pil. Blaudii (White), No. 2	0 9 10	0 7 6
94.	Gran. Calcium Sulph. ½ gr.	0 13 6	0 11 2	164.	Pil. Cascareæ Co. grs. iii.	0 19 6	0 17 2
96.	Pil. Calomel grs. ii.	0 9 6	0 7 2	172.	Pil. Cochiae	0 6 10	0 4 6
97.	Pil. Opili. gr. i. (W. R. Warner & Co.)	0 14 6	0 12 2	180.	Gran. Cathart. Co. c. Euonymin (small vase)	0 5 6	0 4 0
100.	Pil. Copatiae Co.	0 15 0	0 12 8				

\* The Vase quoted is of similar pattern to that labelled "Aromatic Cachous" above represented.

Special Figures for Pills in Bulk Bottles of 5,000, &c.

BRITISH DEPOT:

**F. NEWBERY & SONS**

(ESTABLISHED 1746),

KING EDWARD STREET, LONDON, E.C.

# A small selection of quick selling goods specially suitable for SUMMER and SEASIDE Trade.

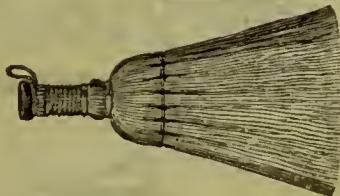


## SMELLING SALT BOTTLES.

12 bottles, to retail at 1/-	..	..	per case 8/-
" "	6d.	..	" 4/-

## SOOTHERS.

1d. Teat and Cord ..	..	..	per gross 7/6
1d. Teat and Ring ..	..	..	" 9/-
1d. Bone and I. R. Teat combined ..	..	..	" 8/-
2d. at 1/3; 3d. 1/10; 4d. 2/6 per doz.	..	..	"
4d. Glass-Top Box Soothers ..	..	..	per doz. 2/6
6d. Musical, each in box ..	..	..	" 3/9



## NEW CLOTHES BRUSH.

6d. Whisk ..	..	..	per doz. 3/9
--------------	----	----	--------------



## NAIL BRUSHES.

1 doz. (4 sorts) in G. T. box ..	..	..	7/6
1 1/2d. Nail Brush ..	..	..	per gross 10/-



TOILET ROLLS. PERFORATED.			
Retail 6d. ..	..	..	per doz. 3/6
" 7d. ..	..	..	4/9
" 8d. ..	..	..	per doz. 5/- & 4/-
" 9d. Thin ..	..	..	per doz. 6/-
" 1/- Medicated ..	..	..	7/6
Nonperforated ..	..	..	3/-
Holders for above—6d. per doz. 3/6;	..	..	
1/-, with mirror, per doz 8/-.	..	..	



## CRYSTAL CUT-GLASS SPRAY PRODUCERS.

VARIOUS PATTERNS.

Per doz 27/-.

## TRIPLE PERFUMES

In Show Bottles as Illustration.

20-oz. oval bottles.

ESS. BOUQUET	FRANGIPANE	JASMIN
JOCKEY CLUB	MILLEFLEURS	NEW MOWN HAY
OPOPOONAX	YLANG YLANG	YLANG YLANG
or 40-oz. round bottles		
LAVENDER WATER	EAU DE COLOGNE	11 1/2 oz. each.

Bach 11/6, or a set of 6, not less than £3 6s.

Also in bulk bottles, each.  
5-oz. 2/3; 10-oz. 4/4; 20-oz. 8/7.



## PERFUMES FOR RETAIL SALE.

		Per doz.
2d. Assorted —	..	1/3
2d. Musk Lavender	..	1/2
3d. Assorted	..	1/10
6d. ,,, (Sprinkler)	..	3/9



## THE IMPERIAL LAVENDER SMELLING SALTS.

Per doz. 4/- and 7/-.

## SUPERIOR 1/- LINE.

ELEGANT IN APPEARANCE.

Neatly Boxed in  $\frac{1}{2}$  dozens.

Per doz. 7/- only.

Order St. Paul's Brand.

## ALMOND SHAVING CREAM.

Large Pots, to retail 1/-, per doz. 6/-.

## TOURISTS' SHAVING BRUSH.

In Metal Turn-back Case, per doz. 4/6.

## SOLID DISINFECTORS. TO HANG UP.

1d. retail, 3 doz. in box, per gross 7/6.

Orders for not less than 1 gross 7/- per gross.



## BATHING CAPS.

6d. ..	..	..	..	..	..	per doz. 4/6
1/- ..	..	..	..	..	..	7/6
1 1/2 ..	..	..	..	..	..	11 1/2

48 to lb. ..	..	..	..	..	..	per lb. 2/4
40 ..	..	..	..	..	..	2 1/2
20 ..	..	..	..	..	..	2/-

NIACARA MILLS MANILLA CURL PAPER retails for 1/6 each. Carton of 500 sheets, per doz. 9/-.  
PAPYROLES should always be kept in stock.

WRITE FOR OUR NEW 16-PAGE SUMMER LIST.

**FRANCIS NEWBERRY & SONS (ESTABLISHED 1748),**

Druggists' Sundriesmen and Perfumers,

1 & 3 KING EDWARD STREET, NEWGATE STREET, LONDON, E.C.

# EXCHANGE COLUMN.

## FOR DISPOSAL.

### Formulae.

Recipes for sticky fly-papers, 1s.; saponaceous tooth-paste (quite new), 1s.; eau dentifrice, 1s.; post free. Glynn, New Manor House, Moseley, Birmingham.

**Very special.**—Digestive elixir has a large sale in the North as a proprietary; cream of cantharides, a perfect hair-lotion; diarrhoea-cordial, vastly superior to the old chalk mixture; vegetable tonic, a most popular article wherever introduced; neuralgic tincture, a grand remedy; universal ointment, an excellent ointment; 1s. 1d. each; 3 for 2s. 9d.; 6 for 5s. "Analyst," 144 Desborough Road, High Wycombe.

### Drugs and Chemicals.

Three oz. otto of roses, good: what offers? R. Williams, Chemist, 91 Hoxton Street, London, N.

### Educational.

Books.—Chemistry, botany, medicine, astronomy, microscope; returnable list sent. Davis, Chestnuts, Upper Gordon Road, Enfield.

### Shop Fittings.

A hanging centre-draught lamp, brass container, 100-candle-power, suitable for a shop; packed free, price 15s. Fields, Beverley.

Fine old bell-metal mortar, raised scroll and date (1744) round centre, weight with pestle 100 lbs.; capacity 12 pints; sound and in good condition; price 1s. "Chemist," 8 Strand, Torquay.

### Miscellaneous.

For sale.—Chemical balance, long beam, by Oertling; made 3 years ago; in excellent condition; very little used; cost 20*s.* Offers to "Balance," c/o J. W. Vickers, 5 Nicholas Lane, E.C.

*Chemist and Druggist* (part bound) and *Diaries*, years 1889 to 1893; *Pharmaceutical Journal*, years 1885 to 1893; *Athenaeum*, years 1885 to 1893; *Medical Times*, year 1885; *Lancet*, years 1891 to 1893; human skeleton, adult; what offers? Cowan, Chemist, Rochester.

Dental forceps, Maw's No. 9 set, 12 pairs in pouch, cost 3*l.* 18*s.*, 2*l.* 10*s.*; 5 stump forceps, cost 1*l.* 10*s.* 6*d.*, 1*l.* 1*s.*; 5 Bell's scalers, ivory handle, in case, cost 14*s.*, 10*s.*; Bell's elevator and 3 Thompson's elevators cost 12*s.* 9*d.*, 8*s.*; 18 stoppers, excavators, &c., cost 18*s.*, 10*s.*; case mouth mirrors, cost 2*s.* 18*s.*; all perfect. Tome's "Dental Surgery," 6*s.*; "Codex Francaise," 3*s.*; *Lancet*, vol. i., bound, 2*s.* 6*d.*; *Pharmaceutical Journal*, 2 vols., vi. and vil., well bound, 3*s.* 6*d.*; Squire's "Companion," 1890, 5*s.*; "Pharmacopœia," Throat Hospital, 1*s.*; Muspratt's "Chemistry," 2 vols., 15*s.* Payne, 58 Long Row, Nottingham.

What offers? *Chemist and Druggist*, unbound, 1877 to '93; Coffin's "Diseases Generative System"; Culpeper's "Herbal," quarto, edges incut, published 1798, Masonic dedication; "Dog," illustrated, Idstone; "Illustrated Book of the Dog" Vero Shaw, published 35*s.*; "Practical Kennel Guide," Gordon Stables; 6 volumes "Flowering Plants, Grasses, and Ferns of Great Britain,"

by Anne Pratt, beautiful coloured illustrations, Warne & Co., published 3*l.* 6*d.*; "Handy Book Flower Garden," Thompson, 5*s.*; "Insects at Home," Wood, 700 woodcuts, published 2*l.* 4*s.*; Stewart's "Elementary Physics," Macmillan, 4*s.* 6*d.*; "Popular History British Mosses," ditto "Lichens," coloured plates; "Treatment Venereal Diseases" Banstead, M.D., 4th edition; "Potency and Sterility," Gross, M.D.; "Rose Garden," Paul, 8th edition; "Year Book of Pharmacy," 1874 to 1886, with index, 14 books; Bohn's "Handbook of Domestic Medicine"; 8 "Scientific Mysteries," splendid condition, most good as new. Picken, Chemist, Newport, Shropshire.

### WANTED.

Books for Minor exam.; latest editions. James Waters, Amble, Northumberland.

Two fig. 1 (Maw's catalogue) show-jar stands, for jars 13*g.* in. diameter. Brown, Chemist Dover.

Title and index for the *Chemist and Druggist*, 1868, 1869, and 1877; also the number for January 15, 1869. J. N. L., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.O.

### Address Wanted.

The present address of C. W. Shepherd, Chemist, late of Ilkley, Yorkshire. 92/55, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.O.

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THE best known and most deservedly popular hand or tripod Cameras in the world. Unexcelled by any other Cameras for compactness, lightness, capacity, and ease and rapidity of manipulation.

All the Kodaks are sold ready loaded with Spools of Film containing from 24 to 60 exposures. It is not necessary to expose the whole spool before development; one or more exposures may be cut off, and the remainder of the spool re-connected for future use. Rolls of film, or glass plates can be used at will with the "Junior," "Folding" and "C Ordinary" and "C Daylight" Kodaks. Prices from £1 6*s.* to £22 1*s.*

**SOLIO PAPER.** The typical and standard printing-out paper of the day. Unrivalled for excellence of quality and ease of manipulation. In white, pink, mauve, and pensé—the last particularly recommended for export.

**MATTE SOLIO PAPER.** Possesses all the excellent qualities of glossy Solio, and is printed, fixed and toned in exactly the same manner.

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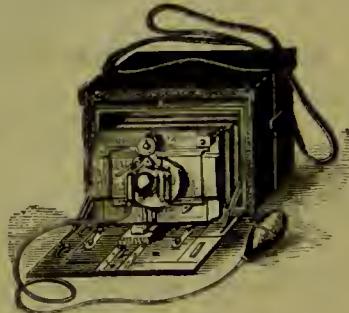
**PLATINO BROMIDE PAPER.** An Argentic Bromide paper, which gives the effect of the Platinotype, but is much easier to work. Distinguished by the soft grey and rich velvet and platinotype tones, with perfect matte surface.

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Complete Price Lists on application.

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5 ft. long, 90/-; 6 ft., 105/-; 7 ft., 120/-; 8 ft., 140/-.



NATALI & CO., 40 Gray's Inn Rd., Holborn, LONDON, W.C.

# WARRICK FLORAL CACHOUS.

Real Heliotrope, Real Violets, Real Roses, Real Lavender Cachous.

LILAC AND EAU DE COLOGNE PASTILLES.

3/- per lb., richly labelled; 4/- per dozen Boxes, gold embossed on calf.

18 OLD SWAN LANE, LONDON, E.C.

## BROTHERS.

# IRON JELLOIDS (TRADE MARK)

(BY PATENTED PROCESS)

THE MOST PERFECT AND PALATABLE FORM OF BLAUD'S PILL.

Manufactured only by

WARRICK BROTHERS, 18 Old Swan Lane, LONDON, E.C.

# WARRICK EXTRAIT WALLFLOWER.

VERY NATURAL AND VERY LASTING.

Handsome 1-lb. Stoppered Bottle, handsomely labelled, 9/6.

WARRICK'S FRENCH EXTRAITS have HELD THE FIELD for OVER 50 YEARS.

18 OLD SWAN LANE, LONDON, E.C.

## BROTHERS.

# BUSH'S

# LEMON OIL.

"Speciality."

## TRY IT.

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# OL. SANTALI "BUSH."

## TRY IT.

# OL. SANTALI "BUSH."

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Artillery Lane, LONDON.

# BARNETT & FOSTER,

MANUFACTURERS.

## THE "COMPACT" CONTINUOUS-ACTION SODA-WATER MACHINE.

GOLD MEDAL International Food Exhibition, 1891.

GOLD MEDAL, BATAVIA, 1893.

Specially designed for where space is an object, and for those having a large retail trade, such as Chemists, Hospitals, Restaurateurs, Hotel Proprietors, &c. They are ready for work immediately, require no fixing, and produce Aerated Waters of the very highest quality at a minimum of cost.

**NO DANGER. NO MESS. PERFECTLY RELIABLE.**

**NOTE.**—These Machines are not toys, but thoroughly well-made Machines, and will last many years with hard working. We guarantee to produce a better article with these than any other system adapted for using the Liquefied gas, and at a lower pressure, thus effecting an immense saving in broken bottles, and also reducing risk of accidents.

No. 1 Size, complete with Turnover or Syphon - filling Machine, and fitted with fast and loose Pulleys for driving by power ... ... Code Word (*Compact*) £60

Producing Capacity by Hand-power 600 doz. per day.  
" " Power 1,200 " "

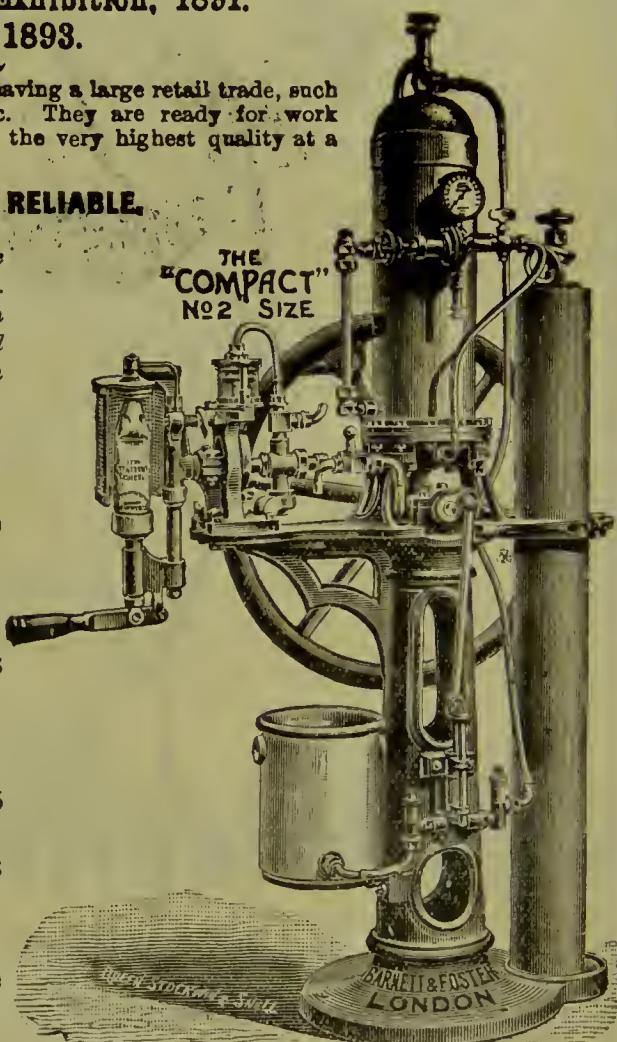
No. 2 Size, complete with Turnover or Syphon - filling Machine ... ... Code Word (*Tocom*) £48

Producing Capacity by Hand-power 350 doz. per day.  
" " Power 700 " "

No. 3 Size, complete with Turnover or Syphon - filling Machine ... ... Code Word (*Chemicus*) £35

Or without Syrup Pump to Turnover Machine  
Code Word (*Retailer*) £33

Producing Capacity by Hand-power 200 doz. per day.



In use by Leading Chemists in all parts of the United Kingdom.



THE  
"NIAGARA" BOTTLE  
IS THE  
STRONGEST,  
CLEAREST,  
AND BEST

Ball-stoppered Bottle in the Market.

SAMPLES FREE.

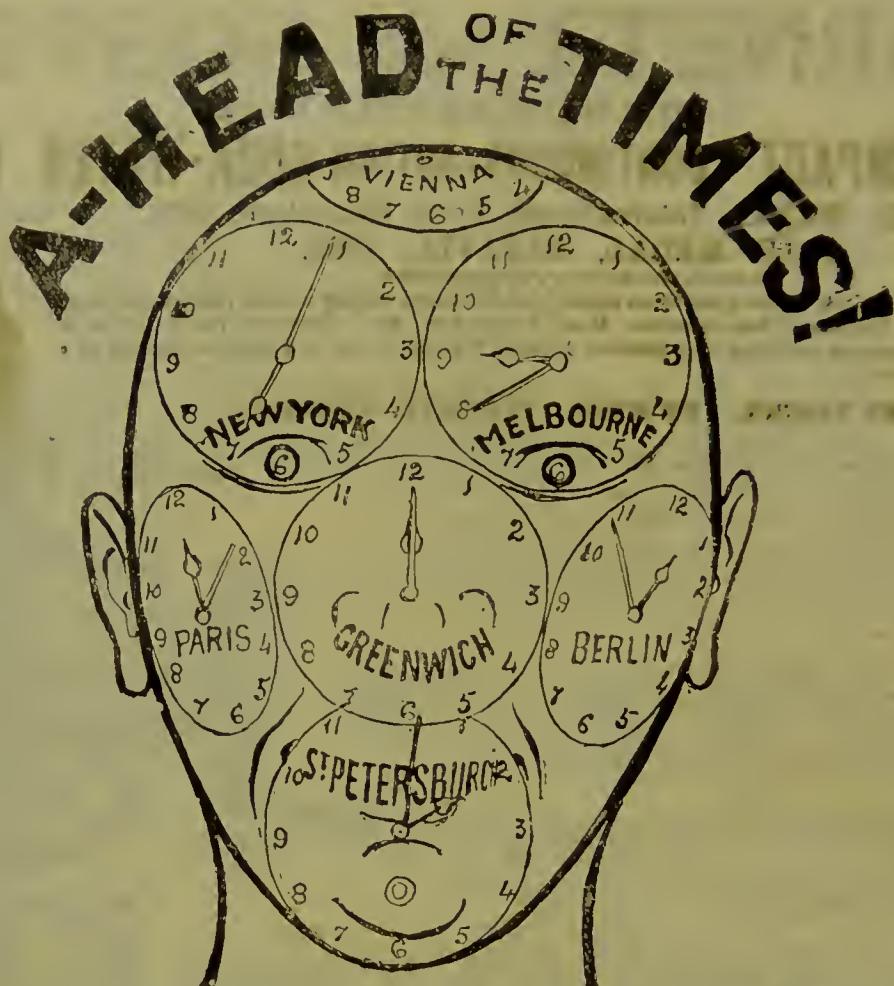
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NOTE! We are Manufacturers, NOT Agents.

ILLUSTRATED CATALOGUES FORWARDED FREE.

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LONDON, N.





## GREENWICH TIME

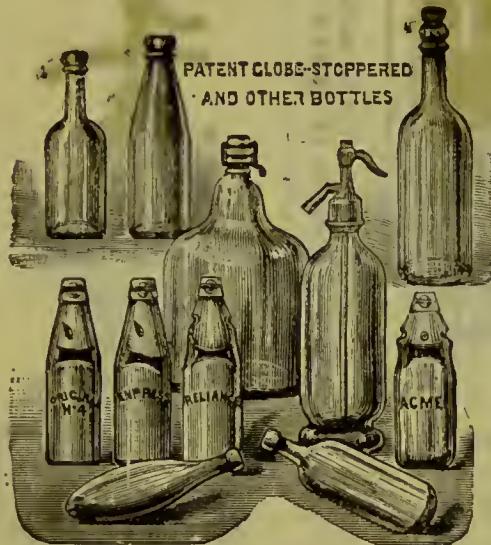
Just as Greenwich is the STANDARD of Time, so our Essences are being recognised as the STANDARD of Excellence—correct, reliable, and safe. They are prepared from our STANDARD Formulas, and are uniformly accurate, and, like Greenwich in our Sketch, their quality stands at the Meridian. For a novel and attractive Summer Beverage our Soluble Essence of MELOKA is specially prepared. This Essence is the very brightness of noonday—delightful, attractive, and cheering, and can be obtained from the STANDARD ESSENCE CO., or DAN RYLANDS, LTD., BARNSLEY. The Fragrance of the Rose and the Purity of the Lily

IS OUR STANDARD.



# DAN RYLANDS, LIMITED,

Glass Bottle Manufacturers, Box and Case Makers, Soda-water Machinery Engineers, and General Providers to the Mineral Water Trade.



## GLASS BOTTLE DEPARTMENT.

We have had TWENTY YEARS' experience in the making of Globe Stoppered Bottles, and have manufactured more than all other firms in the World put together. RYLAND'S "Valve," "Reliance," "Acme," and "Original No. 4," are the leading Bottles in the Trade. All our Bottles are made with a patent tool of which we are the Sole Owners, and the grooves produced therewith will be found the most reliable in the market. All Buyers should see that the name of "DAN RYLANDS" and a figure 4 are stamped upon each bottle, in order to ensure our special manufacture and extra strength of glass. The names of our various shapes of Globe-stoppered Bottles are also registered, and should be used by buyers when placing their orders.

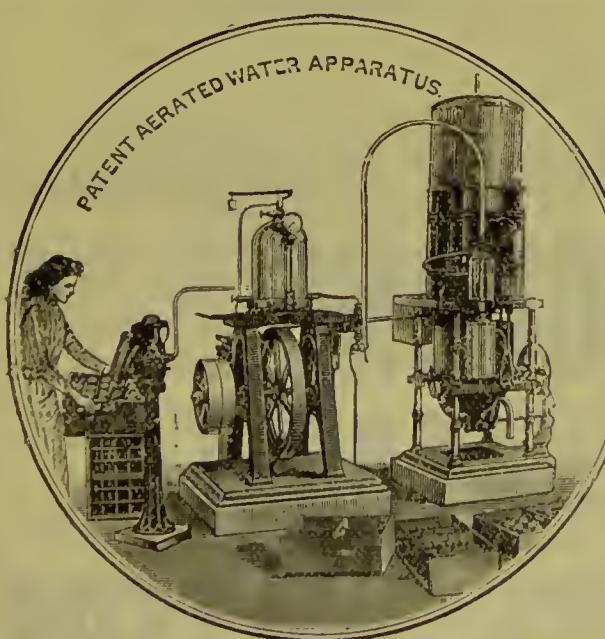
Our Syphon Bottles are of the very first quality, with pure block-tin Tops and strong, brilliant, pressure-resisting glass, elegant in appearance, and of simple construction. All kinds of screw-mouth and cork bottles for the aerated-water trade.

Our patent machine-made "Climax" and other Bottles are accurately made and specially designed for Preserves, Pickles, Confectionery, and for all purposes to which wide-mouth Glass Vessels can be applied.

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Our Essences, Tinctures, and other ingredients are prepared by the Standard Essence Co., for whom we are sole agents. Their superior preparations are produced by a process which preserves the full natural aroma of the Fruits. These essences are highly concentrated, of exquisite flavour, and absolutely pure.

Essential Oil of Lemon, Acids, and Colourings of the finest quality and at moderate prices.



## SODA-WATER MACHINERY DEPARTMENT.

This Machinery possesses exceptional merits. The Aerated Waters it produces may be relied upon for uniformity of quality, and as regards economy our Patent Plants eclipse all others. They save materials, power, space, labour, time, and money.

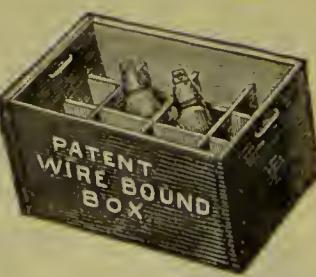
We are also supplying our Patent Machines adapted for using Liquefied Carbonic Acid Gas, to all who prefer this system of Aerated Water making. They are strong, simple, easily managed, and reliable.

Our Filling Machines are the most popular and leading fillers in the market. All kinds, for hand or power, for corks or patents. Of our Paragon Fillers there have been

over 4,500 sold.

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RYLAND'S PATENT WIRE-BOUND BOXES are far superior to hoop-ironed boxes, which catch and drag against everything they come in contact with. In the wire-bound boxes, the wire lies in a groove and is protected from wet and rust. The wire-bound boxes are the strongest, lightest, and neatest in the trade.



Catalogues and Price Lists free on application.

# DAN RYLANDS, LIMITED, BARNSLEY, ENGLAND

# SYPHONS | SELTZOGENES



Messrs. J. BARRE JOHNSTONE & CO., 20 Robertson St., Sydney, N.S.W.  
Agents for New South Wales, Queensland, and New Zealand.

**SODAWATER  
MACHINERY**  
AND APPLIANCES  
**BRATBY & HINCCLIFFE LTD.**  
ANCOATS 146 MINORIES  
**MANCHESTER & LONDON LTD.**  
81 ROBERTSON STREET, GLASGOW.

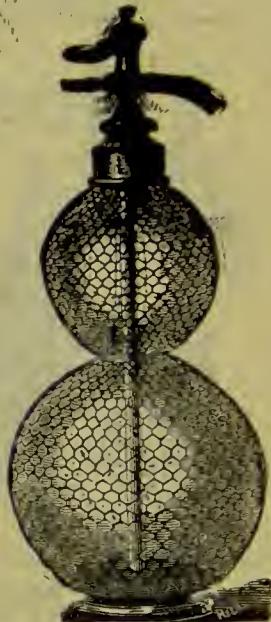
**PRICES.**  
SYPHONS ... 1/6 1/8 and 1/10 each.  
SELTZOGENES.

1	2	3	4	5	8	pint.
6/-	6/8	7/6	8/6	10/5	16/-	each.

Including two funnels and stopper for charging.

The tops of these Seltzogenes are made of pure block tin, guaranteed

All our Seltzogenes are manufactured on the well-known "Fevre" System, and each one is thoroughly tested before leaving the works.



ESTABLISHED NEARLY FIFTY YEARS.

PRIZE MEDALS AWARDED AT ALL THE EXHIBITIONS.

**EUGENE GERAUT & CO.'S**  
LATEST  
**NEW PATENT SELTZOGENE**

PATENT No. 18,305.

For the immediate Preparation of Seltzer Water, Eau de Vie, Soda Water, Sparkling Lemonade, Aerated Waters, &c.



Finding so many complaints through the screws of Seltzogenes getting worn and Customers not screwing taps on tight enough, E. O. & Co. have patented the above improvement in their Seltzogenes, which differs materially from the numerous kinds that have from time to time been introduced, there being no screwing required, thus the machines cannot easily get out of order.

In place of Screw on Tap, there is a Clip, which is easily fastened to the Seltzogene, any Child being able to Screw the little Key at Top, and making perfectly Air-tight the Apparatus.

**WEAR AND WORKING GUARANTEED.  
NO MORE SCREWING REQUIRED. TAP  
CANNOT GET CORRODED.**

CONTRACTORS TO HER MAJESTY'S GOVERNMENT.

SOLE ADDRESS—

139 & 141 FARRINGDON RD.

LONDON, E.C.

Gasogenes and Seltzogenes Repaired.

## INDEX AND BUYERS' GUIDE

See pages 61-64

## PUREST IN ENGLAND.

**BOURNE** SODA, SELTZER,  
LITHIA, POTASH,  
LEMONADE,  
GINGER ALE, &c.

Supplied in Six  
Dozen Cases,  
Carriage Paid,  
by

Analysis, &c.,  
on  
Application.

R. M. MILLS & CO.

BOURNE,  
LINCOLNSHIRE.

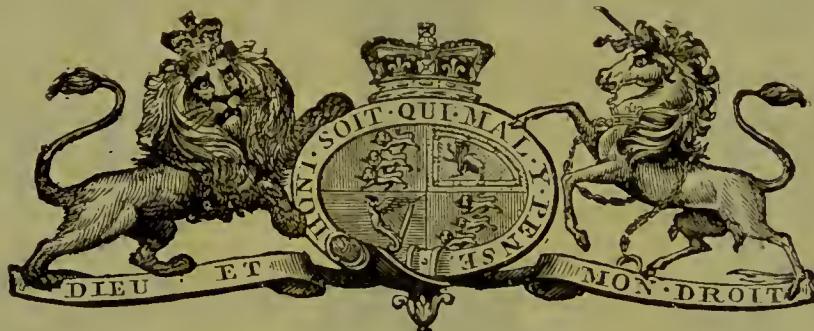
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West End Agent, D. WHEATLEY, 16A North Audley Street, W.  
City Agents, RAE & CO., 23 Fenchurch Street, E.C. And of all Chemists  
Wine Merchants, Hotels, &c.

# IDRIS TABLE WATERS

The PUREST and the BEST.

Purveyors  
of  
Table Waters  
by  
Royal Warrant



of Appointment  
to  
Her Majesty  
the  
Queen.

*The following Testimonial has just been received:—*

“I have much pleasure in stating that from November, 1891 (when I took this business and opened an account with you), I have found an increasing trade in your Waters. My business has steadily improved, and your Waters have given very great satisfaction.

I am also glad to notice that you fully protect Chemists' interests by refusing to supply Grocers and others who compete with Chemists. I had a proof of this a short time ago by a Grocer showing me a letter he had received from you stating that you declined to supply him. I am glad to receive this confirmation of the statement you make in your advertisement.

I should also like to add that your prompt delivery and the general attention which you have always given to my orders facilitate business very much. I have great pleasure in recommending you, and you are at liberty to make what use you like of this.”

---

IDRIS TABLE WATERS IN SYPHONS AND BOTTLES.

---

**IDRIS & COMPANY, LTD.**  
PRATT STREET, CAMDEN TOWN.

# LAURENT-PERRIER “COCA-TONIC”

A high-class Wine  
and powerful  
Nerve Restorative.

Prepared by  
Laurent-Perrier,  
Bouzy-Reims.

**2/-, 3/9,**

**AND 7/-**



**CHAMPAGNE**

Chemists are requested to write for Show Tablets, Trade Terms, and Special Plan of  
Introduction in country and town, to the Sole Consignees—

**HERTZ & COLLINGWOOD, 4 SUSSEX PLACE, LONDON, E.C.**

# JEWSBURY & BROWN

Have pleasure in announcing that they have removed to New Premises at

**ARDWICK GREEN, MANCHESTER,**

WHICH HAVE BEEN SPECIALLY DESIGNED FOR THE MANUFACTURE OF

# MINERAL WATERS,

**Aerated Beverages,**

AND

# BREWED GINGER BEER.



The LABORATORIES, MACHINERY, and APPLIANCES are THOROUGHLY UP TO DATE, and the Water Used comes only in contact with Pure Tin and Slate, thus absolutely avoiding any dangerous metallic contamination. As heretofore, only the Finest Qualities of Materials will be used

in every department, relying on the quality of our productions to ensure for them a preference with the consumer who requires a safe and refreshing beverage of absolute purity.

Chemists who have not Stocked these Waters are invited to write for Prices.

**CARRIAGE PAID ON RETURNED EMPTIES.**

**JEWSBURY & BROWN, MANCHESTER**

Mineral Water Manufactory,  
ARDWICK GREEN,

ORDERS FOR EXPORT AND SHIP STORES RECEIVE SPECIAL ATTENTION.

## Where to Buy ?

# HORNCastle.

## What to Buy ?

See our monthly Prices Current of Drugs, Chemicals, Pharmaceutical Preparations, Essential Oils, Gums, Crushed Linseeds, Ground Drugs, and Spices, &c., which will be sent free on application.

## Why ?

**Because** we lay ourselves out to do business and to meet, and in most cases overcome, competition.

**Because** we quote to great advantage all going Drugs, Preparations, Chemicals, &c.

**Because** the high quality of our goods is greatly appreciated by our customers.

**Because** we don't keep more cats than will catch mice, but give the details of business unremitting personal attention.

## Therefore

Write for quotations and samples.

W. KEMP & SON,  
Wholesale Druggists  
and Manufacturing Chemists,  
HORNCastle.

## WHOLESALE.

Chemists are recommended not to let the bulk of the Summer Beverage trade be done by Grocers and Supply Stores, but to do it themselves by making a show of our  
**"CASTLE HORN"** brand of

# LEMON SQUASH

Made from FRESH LEMON FRUIT, and of Highest Quality.

In Reputed Quarts (6 to gallon).

## RETAIL, 1/- PER BOTTLE.

The Largest and Best offered.

Very Handsomely Labelled.

## NOTE THE FAVOURABLE WHOLESALE PRICES.

In free Wood Cases of 3 dozen each.

For 1 Case	...	8/- dozen, carriage paid.
„ 2 Cases	...	7/6 „ „
„ 4 Cases	...	7/- „ „
Less than a Case,	8/- dozen with other goods.	

The Carriage is paid as above to any station in England or Wales. If to Scotland or Ireland, 6d. per dozen extra.

In each case is enclosed a Lithographed Showcard and packet of Handbills, without our name, showing facsimile of bottle in colours.

*Not sent out on sale or return. Above prices are lowest for quantities named.*

PROPRIETORS AND MANUFACTURERS—

W. KEMP & SON, **WHOLESALE DRUGGISTS, HORNCastle.**

London Agents—BARCLAY & SONS, 95 Farringdon Street, who will supply large or small lots at above prices, net.

# A. MILLAR & CO., DUBLIN PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia.



## ROBINSON'S LIEBIG'S BEEF WINE.

Composed of Liebig's Extract of Beef, Extract of Malt, and sound Port Wine.

### REPORT ON BEEF WINES.

From the results of my Analyses of various Beef Wines I have had occasion to examine, none have equalled as regards strength, purity of ingredients, and (of no less importance) the skilful and judicious manner in which the respective ingredients have been proportioned and combined, the Liebig's Beef Wine manufactured by Mr. E. Robinson, of Pendleton, Manchester.

It is in every sense a reliable preparation, embodying in a pleasing and palatable form all the acknowledged medicinal and nutritive properties pertaining to Liebig's Extract of Meat, Extract of Malt, and sound Port Wine.

WILLIAM ELBORNE, F.C.S., F.L.S.,

Lecturer on Materia Medica in the Owens College, Manchester (Victoria University). December 15, 1888.

Introduced 1855.]

## ROBINSON'S CONCENTRATED WATERS.

[Introduced 1855.

One ounce of these Waters added to Forty Ounces of Distilled Water forms a clear Medicated Water (without filtering), similar in every respect to those prepared according to the directions of the British Pharmacopœia, and free from all Chemical Impurity. They will keep good any length of time in any climate.

Aqua Anethi, Concent.	4/ lb.	Aqua Cinnam. Ver., Concent.	6/ lb.	Aqua Feniculi, Concent.	4/ lb.	Aqua Pimentæ, Concent.	4/ lb.
„ Anisi	4/ "	„ Casmim	4/ "	„ Menth. Pip.	4/ "	„ Rosæ	8/6 "
„ Camphor	4/ "	„ Flor. Aurant.	8/6 "	„ Ang.	6/ "	„ Rosa Virgin.	10/6 "
„ Corioli	4/ "	„ Flor. Sambuci	8/6 "	„ Virid.	4/ "		

The above are put up in Bottles of 1 lb. or 1 lb. and upwards, each of which has the Inventor's Protection Label over Cork.

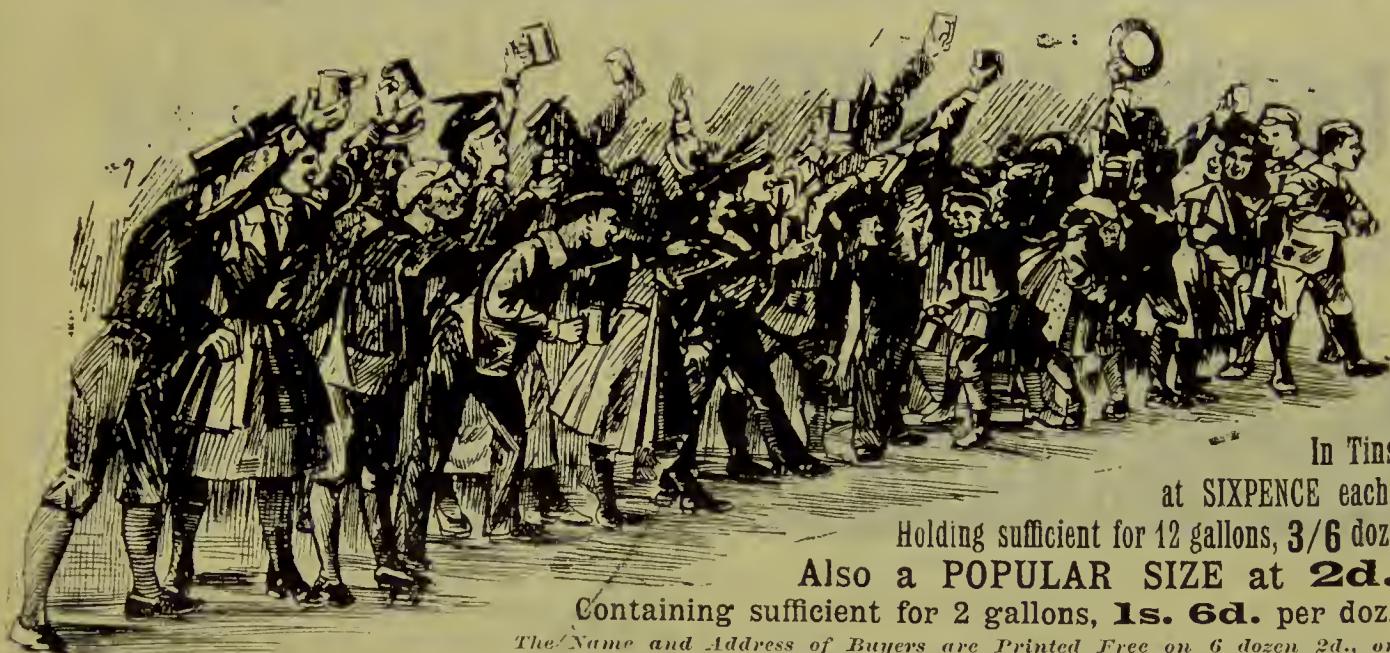
From the LANCET, July 15, 1882 :—"CONCENTRATED WATERS (Robinson's, Pendleton, Manchester).—Among the samples sent to us, we find Aq. Anethi, Anisi, Cinnam. Ver., Rosæ, and some dozen of others. Diluted with forty parts of water they form the ordinary waters of the Pharmacopœia. They are excellent in quality, and will be very useful, especially in country practice."

Wholesale Agents : HARRON & CO., London, and most Provincial Wholesale Druggists. PREPARED BY THE INVENTOR—B. ROBINSON, MANUFACTURING CHEMIST, DISTILLER, AND BREWER OF BRITISH WINES, MANCHESTER.



# THE COMING DRINK!

## HERB BEER EXTRACT IN POWDER.



In Tins

at SIXPENCE each,

Holding sufficient for 12 gallons, 3/6 doz.

Also a POPULAR SIZE at 2d.

Containing sufficient for 2 gallons, 1s. 6d. per doz.

*The Name and Address of Buyers are Printed Free on 6 dozen 2d., or 3 dozen 6d. In Boxes containing 1 dozen 6d., or 6 dozen 2d.**"A Striking Novelty."—B. & C. D.**"Perfect Distribution of the Oily Materials."—C. & D.*

The 2d. Tin is a New Size, and should command a Large S'ne. 6 dozen 2d. Tins or 3 dozen 6d., post free for 9s. or 10s. 6d., bearing Customer's own Name and Address. In Counter Boxes with Pictorial Illustration. Demy 16mo. Circulars for Retail use, 2s. per 1,000.

**SOUTHALL BROS. & BARCLAY, BIRMINGHAM.**

# NATURAL MINERAL WATERS

Packing  
Free.

## INGRAM & ROYLE

Carriage  
Paid.

LONDON—52 Farringdon St., E.C.

LIVERPOOL—19 South John Street.

# VICHY

SOLE IMPORTERS OF  
(STATE SPRINGS)

# VICHY

ESCALAP, CARLSBAD, CARLSBAD SALTS, LA-BOURBOULE, OBERBRUNNEN, ROSBACH, VALS, ETC.

NAME	Per Dozen		Original Packages		NAME	Per Dozen		Original Packages	
	Bots.	½ Bots.	Bottles	½ Bottles		Bots.	½ Bots.	Bottles	½ Bottles
Esculap .. .. ..	15/-	12/-	25	30/-	50	50/-	Levico .. .. ..	—	15/-
Apollinaris .. .. ..	6/-	5/-	50	23/-	100	36/-	Pullna .. .. ..	12/-	8/-
Bourboule (La) .. .. ..	11/-	—	50	42/-	—	5/6	4/6	40	36/-
Carlsbad .. .. ..	12/-	—	50	46/-	—	—	—	50	21/-
Ondal .. .. ..	—	14/-	—	—	50	56/-	Rolsdorf .. .. ..	6/-	—
Contrexeville .. .. ..	9/-	—	50	35/-	—	—	—	50	25/-
Filtwick .. .. ..	24/-	15/-	—	—	—	—	—	50	100
Franz-Josef .. .. ..	—	12/-	—	—	Rosbach .. .. ..	6/-	5/-	34/-	39/-
Friedrichshall .. .. ..	13/-	10/-	25	25/-	50	40/-	Royat .. .. ..	9/-	—
Gerolstein .. .. ..	5/-	4/-	50	20/-	50	15/-	Rubinat .. .. ..	15/-	9/-
Hunyadi-Janos .. .. ..	11.6	9/-	25	21/-	50	34/-	St. Galmier .. .. ..	—	25
ohannia-Brannen .. .. ..	6/-	4/6	50	22/-	100	35/-	St. Marco .. .. ..	6/-	—
Kronenquelle .. .. ..	10/-	—	50	38/-	—	—	Salutaris (including bottles) .. .. ..	11/-	6/6
OBERBRUNNEN .. .. ..	9/-	—	50	36/-	—	—	—	50	42/-
							Selters .. .. ..	4/-	2/6
							—	50	24/-
							Vals .. .. ..	6/-	4/6
							—	50	33/-
							Vichy (State Springs) .. .. ..	8/6	7/6
							—	50	29/-
							“Celestins,” “Grande-Grille,” &c.	—	—

CARRIAGE PAID, excepting SALUTARIS. Detailed Price List and Pamphlet on application.

WHOLESALE & EXPORT orders to

# MASON'S

PERFUMED SOLUTION OF

# CARBOLIC ACID

Should be addressed to

C. E. MASON & Co., 107 Whitecross St., E.C.

TERMS UPON APPLICATION.

# OKELL'S ORIGINAL MONA BOUQUET.

(First introduced by the late JOSEPH OKELL.)

Registered Trade Mark, "DOUGLAS PIER."

The most popular and best-selling Perfume in the market.  
Retail Prices, 1/-, 1/9, 3/6, 6/-, 7/6, 10/6 per Bottle.

ALSO 3d. SAMPLE BOTTLES.

Shippers and Wholesale Buyers supplied on the best terms by  
THOMAS WEST, 1185 & 1187 CHESTER ROAD, STRETFOUR, MANCHESTER.

# PROGRESSIVE CHEMISTS

WHO PREPARE THEIR OWN

## AERATED WATERS

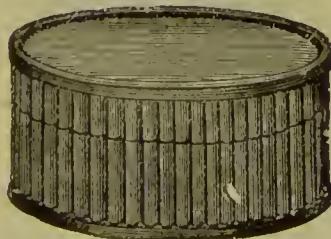
SHOULD USE THE

## PURE LIQUEFIED GAS

OF THE

## INTERNATIONAL CARBONIC ACID CO.

# THE "STIPENDUM" STOPPER CO., LTD.



47 LAMB'S CONDUIT ST., LONDON, W.C.,

MANUFACTURE THE FOLLOWING SPECIALITIES—

"STIPENDUM" CORK STOPPERS, in all sizes.

"STIPENDUM" CORK-LINED CAPS, for Pomade Bottles.

"STIPENDUM" OPENERS, for Stoppered Aerated-water Bottles.

## "STIPENDUM" GREASE-PROOF COVERED POTS,

IN TERRA COTTA, CHOCOLATE, AND BLACK.

The Grease-Proof Covered Pots have perfectly-fitting lids, are practically unbreakable, and the only articles really answering the purpose intended  
To be had of all Druggists' Sundriesmen.

Wholesale only of the Company.

BY ROYAL



LETTERS PATENT.

# "CÉREBOS"

(Not Medicine, but Food).

The New Table Salt "Cerebos" contains the concentrated Food strength (Phosphates, etc.), of bran, which is required to form the actual substance of the Bones, Brain and Nerves, but which is absent from White Bread.

The "Cerebos" Nutritive Table Salt is used instead of the common salt for every purpose ; at table, and in salting bread, puddings, soups, stews, etc. In this way all the valuable constituents of the grain are restored for the use of the system.

Now the use of "Cerebos" Salt in the food, instead of the common salt, "will generally obviate the necessity for giving chemical food, as it contains the most important constituents of it, and it is obviously a much more natural and rational way of supplying the deficiency of the necessary substance, than allowing the health to suffer through the gradual deprivation of them, and then supplying them by dosing with chemical food."—See Medical Reports.

Prices: 1d., 6d., and 1s.

Full Particulars and Samples Free. (Correspondence invited).

The CEREBOS Salt Co., Ltd., Picton Works, Newcastle-on-Tyne.

Recent improvements in collection and transport enable us to supply

## PURE DRY NATURAL CARBONIC ACID

in Government-tested steel cylinders at

## GREATLY REDUCED PRICES.

By the use of Tube Gas, the smallest quantities of aerated waters can be manufactured as required, of first-rate quality, at a minimum cost. There are no waste products produced, no steam power is required and the cost of plant is reduced to a merely nominal sum.

Full particulars on application to the Sole Agents—  
F. J. PUTZ & CO., 21 MINCING LANE, LONDON.

# "WHEN BUYING, BUY THE BEST."



**C. H. GLOVER & CO.**

HATCHAM SAWMILLS,



**LONDON, S.E.**

ARE THE SOLE PATENTEES AND MANUFACTURERS OF

## **GLOVER'S** PATENT CRESCENT STEEL **WIRE BOUND**

WE ALSO SUPPLY

### **BOTTLES**

FOR

Beers, Wines,  
Aerated Waters,  
&c., &c.

Please mention this Paper when inquiring.

## **BOXES AND CASES**

■ FOR EXPORT TO COLONIES. ■

### PACKED SECURELY

In Bales,  
ready for putting together  
at destination.



Complete with Fittings, Nails, Wire Binding, &c., thus saving considerably in freight.

**C. H. GLOVER & CO., HATCHAM SAWMILLS, LONDON, S.E.**

### "A CAPITAL IDEA" !!

Said friend JONES, the Go-ahead Chemist. "I'VE DOUBLED MY TRADE last year since I commenced packing all my customers' prescriptions in Glover's small wood boxes."

And JONES CHUCKLED!!



### "CAPITAL, INDEED" !!!

Said the Colonial Shipper. "Those light nested boxes, shipped in cases (each containing 1-gross nests), are just what is wanted, and I am getting repeat orders doubled. We are all indebted to the Makers, Messrs. C. H. GLOVER & CO., of Hatcham Sawmills, Ormside St., Old Kent Road, LONDON. S.E.!!"

PRICE 1/- per doz. nests of 6 Boxes, planed and hinged, from 5" x 2 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " to 9 $\frac{1}{2}$ " x 6 $\frac{1}{2}$ " x 4 $\frac{1}{2}$ ". Nests of 6 for Bottles, 4 oz. to 16 oz., at same price. Single nest, 1/6. Special Terms for Large Quantities to Shippers.

WE ALSO SUPPLY

### **BOTTLES**

FOR

Beers, Wines,  
Aerated Waters,  
&c., &c.

Please mention this Paper when inquiring.

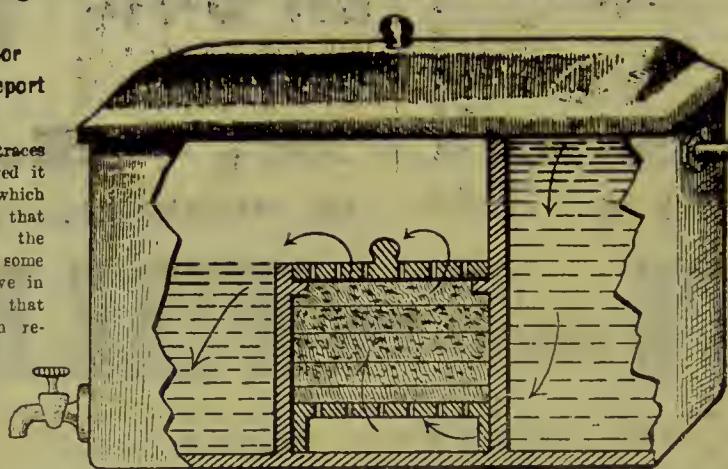
# THE MAWSON FILTERS

The NEW PATENT MAIN SERVICE FILTER,

By Gravitation, no High Pressure Required.

Extract from Professor Tichborne's Special Report on these Filters.

"As regards the removal of traces of lead, the medium removed it entirely from peaty water, which was impregnated with that deleterious metal. After the medium had been in use for some time I still found it active in this respect, and I believe that as long as this preparation retains any decolorising properties it would still maintain its valuable power in this connection."



FEED PIPE  
FROM THE MAIN  
SERVICE.

Adapted for Dwelling Houses, Hotels, Schools, Hospitals, Soda Water Factories, &c.

Several thousand gallons are passed through these Filters every week in Newcastle for making aerated waters.

GLASS, EARTHENWARE, TOURISTS', AND RAIN-WATER FILTERS.

**THE MAWSON FILTER CO.,** 137a PILGRIM STREET, NEWCASTLE-ON-TYNE.

**QUALITY**

BRINGS ITS OWN REWARD.

THOSE WHO SELL

**GLENDENNING'S BEEF & MALT WINE**

FIND THEIR SALES INCREASE. WHY?

Because the constituents used are of the very finest quality, and the public are finding it out.

Order through wholesale houses or direct from Sole Proprietors—

**W.M. GLENDENNING & SONS,**  
IMPORTERS OF SPECIAL WINES FOR INVALIDS.  
9 Grainger Street, NEWCASTLE-ON-TYNE.

Established  
1867.

**HIRST, BROOKE & HIRST (LIM.), LEEDS,**

Manufacturing Chemists and Wholesale Druggists, Manufacturers of

**ORANGE WINE**

Of Finest Flavour and Quality, and specially suitable for the Preparation of Orange Quinine Wine.

**ASTLEY COOPER'S  
PURE ENGLISH**

**GELATINES.**

For Confectioners, Manufacturing Chemists and Druggists, Photographers, &c., &c.

THEY ARE CHEAPER THAN FOREIGN, and absolutely free from Sulphur, Acid, and all Chemicals. Samples and prices free from the Sole Manufacturers,

**ASTLEY COOPER & CO.**  
Analytical & Consulting & Manufacturing Chemists, LEEDS.



# VINACOCA.

Sold in Bottles at 8s. 6d. each, or 40s. per dozen, Retail.

ALSO

## COCA LIQUEUR

The best Restorative is

**ROLLAND'S COCA LIQUEUR.**

The best Nerve Tonic is

**ROLLAND'S COCA LIQUEUR.**

The best Renewer of Health is

**ROLLAND'S COCA LIQUEUR.**

*Sold in Fancy Wickered Bottles, 7s. 6d. each, Retail.*



COCA is prepared in various forms:

COCA WINE, COCA LIQUEUR,  
COCA LOZENGES, COCA TABLETS,  
COCA ELIXIR, COCA TEA,  
COCA CHOCOLATE, COCA TOBACCO, &c.

Usual Trade Discount. Pamphlets for distribution, carriage paid.

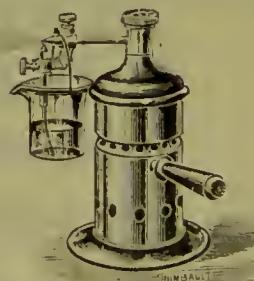
FULL PARTICULARS FROM

**THE FRENCH HYGIENIC SOCIETY,** 6 CONDUIT STREET,  
REGENT STREET, LONDON, W.

## THE NEW PATENT PARISIAN VAPORISER

(REGISTERED AND PATENTED).

Used by  
MADAME  
ADELINA  
PATTI,  
and  
Recommended  
by the  
Highest  
Medical  
Authorities.



On every Toilet  
Table,  
In every  
Nursery,  
In every  
Sick Room,  
This New  
Patent Parisian  
Vaporiser  
is invaluable.

It is the best means of obtaining and preserving a clear complexion, and is specially recommended for the self-administration of spray remedies in all diseases which affect the skin, throat, lungs, mouth, eyes, ears, and head.

Retail Price, 15/- each.

Liberal Discount to the Trade.

WHOLESALE PRICES ON APPLICATION TO

**THE FRENCH HYGIENIC SOCIETY,**  
6 CONDUIT STREET, REGENT STREET, LONDON.

# JAMES BOULTON & CO., LTD.

CHEMICAL MANUFACTURERS,  
CRAYFORD MILLS, STRATFORD.

TELEGRAMS—"ACETATE LONDON."

MANUFACTURERS OF ALL KINDS OF

## GRANULAR EFFERVESCENT PREPARATIONS

Of the very finest quality. We invite buyers and shippers to send for Samples and Quotations.

<b>ACIDS</b>	- - - Acetic, Hydrochloric, Nitric, Pyrogallic, Sulphuric, Sulphurous
<b>AMMONIUM</b>	- Acetate, Carbonate, Chloride, Nitrate, Oxalate, Phosphate
<b>IRON</b>	- - - Acetate, Carbonate, Chloride, and Sulphates
<b>POTASSIUM</b>	Acetate, Citrate, Oxalate, Sulphate, &c.
<b>ZINC</b>	- - - Carbonate, Oxide, Sulphate, Sulphide, &c.
<b>MAGNESIA</b>	- Carbonate Calcined (Citrate Effervescent), Sulphate, &c.

### FRUIT ESSENCES, &c.

SPIRIT COLOURING. CAMPHOR BELLS.

REGISTERED PROPRIETORS AND SOLE MANUFACTURERS OF THE

## NEW PRESERVATIVE

FOR  
BUTTER,  
CREAM,  
MILK.



FOR  
MEAT,  
JELLIES,  
FISH.

OVER 185 TONS SOLD IN ONE YEAR.

The very Best Preservative for Butter, Margarine, or Milk, being a Pure] Homogeneous Chemical compound, not a Mixture.

ALSO

### THE FINEST BUTTER COLOUR BUTTERCUP BRAND.

SAMPLES AND QUOTATIONS SENT FREE ON APPLICATION TO THE MILLS.

# POPULAR SPECIALITIES.

**POTTER'S  
HERB  
BEER** 6d. Bottles,  
3s. 6d. per dozen.  
In bulk,  
9d. per lb. **EXTRACT**

**GRAINS  
OF  
HEALTH**  
A GRANULAR SALINE.  
4d. Tins, 3/- per dozen.  
VERY MILD APERIENT.

**Dr. THOMPSON'S  
Dandelion  
COFFEE**

Absolutely free from Chicory and ordinary Coffee.  
In 6d. and 1/- Tins, 4/- and 8/- per doz.

**FLORAL  
SACHETS**

Tastefully packed in  $\frac{1}{2}$ -gross Boxes, each with  
glass top.

PRICE 7/- PER GROSS.

**TONIC  
HERBS**

2d. and 6d. PACKETS.  
FOR MAKING HERB BEER.  
12/- per gross.

**POTTER'S  
GINGER  
WINE** 6d. Bottles,  
4/- per dozen.  
The Drink for  
the Winter. **ESSENCE**

**BIRD  
SEED** Best Value  
in Market.  
Beautifully  
designed  
Wrappers.  
**IN PACKETS,**  
To Retail at  
1d., 2d., and 4d. each.

**CORN  
AND  
WART  
IMPROVED  
PAINT** 4d. Bottle.

A wonderful Preparation. Bound to give  
satisfaction. Price 2/8 per doz.

**LAVENDER  
FLOWERS**

**In 1d. Packets.**  
These popular Packets sell at sight.  
Price 6/- per gross.

**HOP TONIC  
PACKETS**

MAKES A SPLENDID HERBAL TONIC  
MEDICINE.

2d. Packets, 12/- per gross.

**POTTER'S  
STRAMONIUM  
CIGARETTES** 18 in a Box. 1/- Boxes.  
7/- per doz.

**HERBS  
IN  
PACKETS**  
“WINGED LION” BRAND.

Known all over the World.

**“CLOVE PINK”  
TOOTH  
PASTE**

In Collapsible  
Tubes.  
An Elegant Dentifrice. Keeps good in any  
Climate.  
3d. Tubes, 2/3 doz. 6d. Tubes, 4/-doz.

**INSECT  
POWDER.**

In 1d., 2d., and 4d. Tins. Special design  
engraved on the Tin.  
Prices 7/-, 12/-, and 24/- per gross.

**DISTILLED  
EXTRACT OF  
WITCH HAZEL**

SPECIALLY IMPORTED  
Price 1'6 lb. 1/- Bottles, 7/- per doz.

PRICE LISTS, &c., POST FREE.

**POTTER & CLARKE**  
5, 6, and 7 Raven Row, Artillery Lane, LONDON, E.

**THREE GOOD SELLING  
WHO DO A TRADE  
STEEL SPRING LETTER CLIPS.**



Useful in private or business houses for holding papers of any kind. Retail One Penny. On cards of 1 doz. Per doz. cards 8/-

**FLY PAPERS.**



Packed in parcels of 250 and boxes of 500. 1/8 per 100; 1,000 15/-

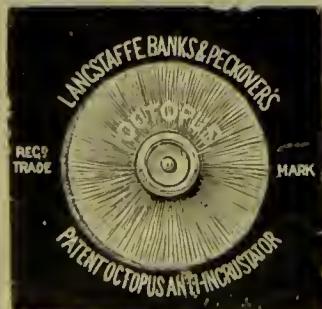
The "Little Wonder" Fly Trap.



To hang on Chandelier where flies most do congregate. Brass Tray, assorted colour glass trap, and brass screw-top and hook.

Packed 1 doz. in a box with show-card. Per doz., 5/6.

**THE "OCTOPUS."**



Collects the "fur" in Kettles, Boilers, Pipes, &c. Prevents Incrustation.

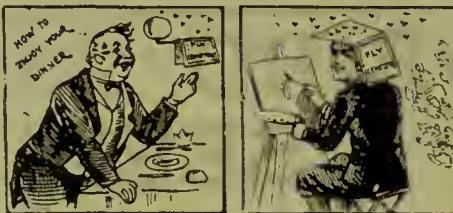
No. 1, Kettle size .. .. .. 1/8 each.  
No. 2, Small Boiler size .. .. 3/4 "  
No. 3, Medium Boiler size .. .. 5/- "

**SAFETY KEY CHAIN.**



Adjustable, with slide cover enclosing a tablet to write name and address of owner. To retail at a penny. On cards of 1 doz. Per dozen cards, 8/-

**"FLY CEMETERY."**



**ANNUAL SALE MILLIONS.  
Free from Poison.**

Liberal Terms to Shippers. Price 6/6 per gross. Special for quantities.

**THE DAISY FLY KILLER.**



WILL KILL ALL THE FLIES YOU HAVE.  
IT HAS WON THOUSANDS OF TESTIMONIALS.  
Price per dozen, 6/-

**'SELVYT' POLISHING CLOTH.**

REGISTERED

TRADE MARK.



PLEASE WRITE

FOR PRICE LIST.

We have now overtaken orders in arrear, and can supply on receipt.  
29 to 9.0 doz.

**LINES FOR CHEMISTS  
IN SUNDRIES.**

**ADJUSTABLE COMPASS  
TO RETAIL,**



ONE PENNY.

Made to fit any pencil of standard thickness, and are absolutely accurate; with patent lock action.

On Cards of 1 doz. Per Dozen Cards, 8/-

**FLY PAPERS.**



In Books containing three Fly Papers, to retail at One Penny per Book, perforated to tear out.

Per gross Books, 6/6.

**POCKET FLASK.**



Very Strong White Glass, with Metal Screw Top and rounded corners; about half-a-pint.

Price per gross, 20/-

**"SANITARY" SINK BASKETS.**



Prices.	Silver-plated on Copper	Enamel'd brown on Copper	Enamel'd white on Iron
No. 1. 9 in. ..	2 6	1 6	1/-
2. 10 1/2 " ..	3 1/2	1 10	1 4
3. 12 " ..	3 10	2 2	1 8

**W. B. FORDHAM & SONS, LIM.,** 36 to 40 YORK ROAD,  
KING'S CROSS, **LONDON, N.**

## ICE CREAM FREEZERS.

The "Lightning" is second to none.

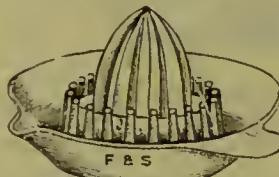


1	2	3	4	6 Quart.
5/6	7/-	9/-	11/-	14/- each.
8	10	14	Quart. With crank.	
18	24/-	31/-	each.	
14	20	24	32	Quart. With fly wheel
46/-	60/-	77/-	100/-	each.

## The "MANNY" SAUCER LEMON JUICE EXTRACTOR

As easily kept clean as a tumbler; can be operated by a child successfully. The MANNY "does not squeeze," but acts directly upon the pulp, and delivers only the CLEAR, PURE JUICE.

Per doz., 4/- Per gross, 46/- Every genuine "MANNY" bears name and dates of five Patents.



Special Terms to Merchants and Shippers. There are several very poor imitations being offered.

## Easley's Genuine American LEMON JUICE EXTRACTOR

Neatly Packed in Subdivided Card Counter Boxes of One Dozen. NO OTHER WILL COMPARE WITH THESE. For Cleaufulness, Quality, Convenience, and Cheapness this make is unequalled.

PERFECTION IN LEMON SQUASH. Every Genuine Easley's Patent Lemon Juice Extractor bears name and date, July 10.



1/8 Doz. 20/- Gross. There are many imitations. Five-gross lots to Merchants and Shippers, 18/- per gross.

## THE PRIMUS STOVE.

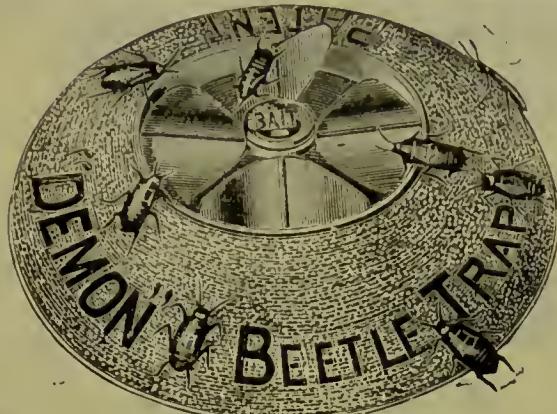


An exceedingly powerful Stove. Without doubt the best of its kind now in use.

Price each, 11/9.

If not less than 1 doz., 10/6. Full instructions sent out with each Stove.

## REFUSE IMITATIONS OF



The following from Messrs. M. A. SEDGWICK & CO., the well-known Brewers, of Watford, has been sent us by a Shopkeeper in that town, dated 18th June, 1894.

"Please deliver one dozen 'Demon' Beetle Traps. The half-dozen we had have been a great success. In one week we caught nearly 8,000 Beetles.

Price per dozen in London or Birmingham, 8/-.

Dis. 2½ per cent.

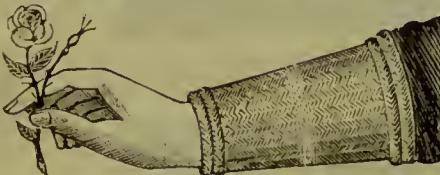
Price per dozen, Carriage Paid in the United Kingdom, on lots of 12 dozen, 7/9. Dis. 2½ per cent.

Handsome Show Card Free.

Special price to Merchants and Factors in lots of 5 gross, dates of delivery to be arranged.

We find it necessary to mark each "Demon" Beetle Trap as above.

## RUSH GAUNTLETS (Made in China).



To protect Cuffs, Coat Sleeves, Dresses, &c., for Women, Men, Girls, and Boys.

Assorted sizes, price 3/3 per dozen pairs.

## THE New Patented "PINNACLE" SOAP STAND.



Each in a box—oblong, round, or oval. Retailed 9d. each; price 6/- doz. Of FORDHAM'S, and all Wholesale Houses.

## NEW HAT IRON.



A Silk Hat needs constant attention, and you cannot do this with a brush alone, but you have got to apply heat to it to effectually lay the nap and impart a gloss. The time has come when you can do this. You can do it in the time it would take you to make a trip to your hatter's.

The latest American Novelty, very handsome and saleable, 3/3 each; sample by post, 3/6.

## THE "PHÖENIX" CASH TILL,



As a piece of cabinet work, is perfect, and, without its special advantages, well worth its cost.

Fixed by four screws in as many minutes by any person.

REDUCTION IN PRICE.

Till, 10/- ; 6 Tills, 90/- doz.; 12 Tills, 88/- doz.

## BROOKE'S SOAP.



### WON'T WASH CLOTHES.

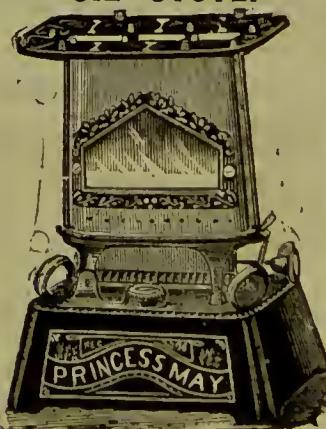
100-Bar Cases	..	..	..	..	..	25/-
60-Bar Cases	..	..	..	..	..	15/-
48 Small Bars	..	..	..	..	..	6/3

LONDON OR BRISTOL.

If any difficulty in obtaining in any part of the world, write Sole London Consignees—

"FORDHAMS, LONDON."

## THE "PRINCESS MAY" OIL STOVE.



This is a new pattern, and a thoroughly reliable Oil Stove. The Combustion and Illuminating qualities are of the First Order.

Price per doz., 32/6. In gross lots, 31/6.

Radiators for above, per doz., 12/-.

Also, the "BEATRICE," and many other Cooking Stoves.

SEND FOR LIST.

**W. B. FORDHAM & SONS, LIMITED,**

38 to 40 YORK ROAD,  
KING'S CROSS,

**LONDON, N.**

## THE "RAPID" CORK PULLER



Is the best and most complete Machine made for extracting corks. In pulling corks you never break a bottle, as the strain is on the strongest part of the bottle. You can cut the wires and pull the cork of a Bass's Ale or any Mineral Water Bottle with one motion of the hand. Price each, 11/6.

We also stock the "UNIQUE," price 12/6.

## "BRILLIANT BELGE."

(Made in France.)



The very best Liquid Metal  
Polish

Liquid Metal Polish.

Wholesale nett prices, 3/3, 4/6, 8/-, and 12/- per dozen. In strong Stone Bottles with patent Capsules.

## MOCKLER'S

## SPRING COVERS.

To Fit Teacups, Tumblers, and Jngs. For Glass and Stone Jam Pots, Preserve Jars, &c. In 3 Sizes to fit any vessel. In 2 qualities.

1	2	3
2½	3½	4 inches.
7/6	8/-	8/6 per doz.

DUST AND FLY PROOF.

A Parliamentary Cartoon and other particulars from Sole Agents—  
"FORDHAMS, LONDON."



## UNBREAKABLE PULP WARE

In order to get this useful Ware thoroughly known we will supply Sample Sets at specially low prices, 5/-, 10/-, 20/-, or 30/-, to show our customers a substantial profit.

## OCTOPUS

### And SANITARY SINK BASKETS,

For which we are the Sole Selling Agents for the United Kingdom. For prices see page 58.

## SPONGES

New stock of Fine Sponge, just in, from 4d. to 4/- per piece.

We also stock Carded Sponges, assorted Turkey and Honeycomb, from 1d. to 1/- per piece.

## TOILET PAPER

Special value in papers. New List; all prices reduced.

## BROWN PAPER

A special purchase of 50 Tons Glazed Brown Wrapping Paper, various weights and sizes, lowest prices ever known. Samples free upon application

## BEESWAX

Finest English .. .	1/9 per lb.
," French .. .	1/7 "
American (in bricks) .. .	1/6 "
Foreign (relah'e) .. .	1 2 "
Imitation .. .	8d. "

Also in ½ and 1 oz. Cakes, and 3½-lb. boxes.

We are buyers of Genuine English Beeswax.

## GLUE

Upwards of 100 tons always in stock.

Good Strong Glue .. .	22/6 and 25/- per cwt.
Better .. .	23/-, 32/-, 36/-, and 40/- "
Very fine .. .	45/-, 50/-, 55/-, and 60/- "
Gelatine .. .	45/-, 50/-, 56/-, to 200/- "

## GELATINE

## ROTARY OIL PUMP.



### THE GENUINE GOULD.

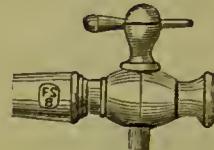
The prices below include Suction Pipe, Coupling Hook and Holder.

Discharge Revolutions. per minute.	Each.
No. 1 .. 60 .. 10 gals. ..	45/- net.
No. 2 .. 60 .. 13 gals. ..	55/- net.

A boy can empty a barrel of oil in four minutes.

Indiarubber Hose for above, 1/- per foot.

## SHORT BOXWOOD TAPS.



These short Taps are made in large quantities expressly for Stone Bottles.

Ordinary size .. . 16/- per gross.  
Larger size .. . 20/- "

## PATENT WATER FILTERS.



Cheavin's Filter affords a certain protection against the dangers that lurk in the domestic water supply. Guaranteed to remove all germs of Cholera, Typhoid, Diphtheria, and all causes of Blood Poisoning, &c.

Special List upon application.

## N.P. SPOON HOLDER.



A very useful little novelty to clip on to side of jam or preserve jar, dish, &c., for the prevention of sticky fingers. Handsomely nickel plated .. 3/- per doz.

## "ENAMELINE."

THE MODERN



STOVE POLISH.

Now too well known to need a full description.

Large size to retail, 2½-l.	27/- per gross.
Medim. " " 2-l.	16 6/- "
Small " " 1-l.	9/- "

Special Prices to Wholesale.

**W. B. FORDHAM & SONS, LIMITED,** 36 TO 40 YORK ROAD,  
KING'S CROSS, **LONDON, N.**

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## CLASSIFIED LIST OF ALL ADVERTISERS

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### ACETIC ACID

Lorans, H.  
Morris & Gallard (Salts)

### ACIDS

Boulton, J., & Co., Lim.

### ADVERTISING SPECIALITIES

Casper & Co., Lim.  
Corsan, J. R.  
Harris, J.  
Sears, F. W.  
Tin Plate Decorating Co., Lim.

### ASPHALT & MINERALS

Apolinaris Co.  
Barnett & Foster  
Bratty & Hinckliffe, Lim.  
Chemists' Aerated Water Association, Lim.  
Chinnery & Co.

Kill & Son (Bathurst)

Idris & Co., Lim.

Ingram & Boys

Jewsbury & Browns

Mills & Co. (Bourne)

Oberbrunner

Putz, F. J., & Co.

### BOTTLE PLANT

(See SYPHONS AND ESSENCES.)

Barnett & Foster

Bratty & Hinckliffe, Lim.

Trans. Sons & Co.

Hornby, R., & Sons, Lim.

Eylands, Dan, Lim.

Tyler, Hayward, & Co.

### CHAINS AEROAD

Anstallian Drug Co.

Bolton

Lomphorne, Prosser & Co.

Leeson, B. G., & Co. (N.Y.)

Pearce, Allen & Co.

Prosser, Taylor & Co.

Co., W. H., & Co.

### ALKALOIDS

Howards & Sons (Oinehen)

Macfarlan, J. P., & Co.

Smith, T. H., & Co.

### AMMONIA

May & Baker, Lim.

White, A., & Sons

Colver, Sons & Co.

### APPARATUS

Bennet, Sons & Shears

Berend, O., & Co.

Christy, T., & Co.

Elliss's Duplicator Co.

Johnson, Matthay & Co., Lim.

### BAKING POWDERS

Goodall, Backhouse & Co.

### BANDAGES

Bailey, W. H., & Son

Bobbins & Sons

Shattoe, F., & Co.

Wood, Vineet

### BATH & FLESH GLOVES

Barely & Sons, Lim.

Chemists' Association, Lim.

Maw, S., Son & Thompson

Pattison, G., & Solport Bros.

Wood, Vincent

### BATH SALTS

Anderson & Co.

### SOAP. SODA

Brunner, Mond & Co., Lim.

Howards & Sons

May & Baker, Lim.

Symes & Co. (Tyer, T., & Co.)

White, Alfred, & Sons

### BOOKS

Hargreaves, Dr., M.D.

Lewis, H. K.

Longmans, Green & Co.

Squire, P.

### BORAX

Howards & Sons

Mack's Starch

### BOTTLES

Aire & Gaider Bottle Co., Lim.

Barnett, F. & Co.

Bratty, E. H.

Bratty & Hinckliffe, Lim.

Evans, Sons & Co.

Gibson, H. H., & Sons

Heaton, Wright & Co.

Johnsen & Jorgensen

Kilner Bros.

Lodden, Cod Liver Oil Co.

Maw, S., Son & Thompson

Potter, H., & Co.

Eylands, Dan, Lim.

Stipendum Stepper Co., Lim.

Touwood, W., & Rouldon, E.

### BOXES

Austin & Co. (Cardboard)

Ayrton & Saunders

Evans, Sons & Co.

Ford, Shapland & Co.

Kent, G. B., & Sons

Kilner Bros.

Maw, S., Son

National Volding Box Co., Ltd.

Eylands, Dan, Lim.

Tin Plate Decoratin

### BRUSHES

Etches, A. & F. E.

Evans, Sons & Co.

Kent, G. B., & Sons

BUNSEN BURNERS

Berend & Co.

BUTTER COLLE, &c.

Boulton, J., & Co., Lim.

Crawshaw & Co.

Crook, Walter J. (Preservative)

Folminson & Hayward

OACHOUS

Bleasdale & Co.

Blyton, Astley & Co.

Jackson, T. J. Kaines & Co.

Warrier Bros.

CALENDARS

Hildesley, S., & Co., Lim.

Speller & Co.

Townsend, J.

CAMPHOR

Howards & Sons

May & Baker, Lim.

CAPSULES

Dental, J. (Medicinal)

Duncan, Flockhart & Co.

Hooper, B., & Co.

Lloyd, T. Howard & Co.

Loftstone & Saltmer

Maw, S., Son & Thompson

Parke, Davis & Co.

Richardson, John, & Co. (Leicester)

Steane, F., & Co.

Warrick Bros.

CARBOLIC ACID

Gas Light & Coke Co.

Mason, C. E., & Co.

Wandsworth Chemical Works, Lim.

CSCRA SAGRADA

Anderson & Co.

Duncan, Flockhart & Co.

Evans, Sons & Co.

Ferris & Co.

Harker, Stagg & Morgan

Moss, J. & Co.

Parke, Davis & Co.

Squires & Sons

Stearns, F., & Co.

CASTOR OIL

Allen & Hanbury

Christy & Co. (Aromaticum)

CRESINE WAX

Boehm, Fredk.

CHALK, PRECIP.

Levermore, Ang., & Co.

Morrison, B., & Co.

Nicholls, G. W.

CHECK TILLS

Gledhill, G. H., & Co.

Stokes, G. H., & Co., Lim.

Voucher Check Till Co., Lim.

CHEMICALS

Berger, Kahler & Co.

Boehm, Fredk.

Bouton, J., & Co., Lim.

Brunner, Mond & Co., Lim.

Burton, W., & Sons

Crook, Walter J.

Evans, Gadd & Co.

Fletcher, Fletcher & Stevenson

Goodall, Backhouse & Co.

Hill, A. S., & Son (Clark)

Hooper, B., & Co.

Drysdale, J. W., & Co.

Dunbar Bros.

Easton Fluid

Fletch Bros.

Gas Light & Coke Co.

Government Sanitary Co.

Heaton, Wright & Co.

Lofthouse & Saltmer

Lorens, H.

Macfarlan, J. F., & Co.

May & Baker, Lim.

Moss, J. & Co.

Smith, T. H., & Co.

Tyler, T., & Co.

White, A., & Sons

Zimmermann, A. & M.

CHEST PROTOTZ.

Hockin, Wilson & Co.

Liverpool Patent Lint Co.

Maw, S., Son & Thompson

Newberry, F., & Sons

Pattison, G.

Schutte & Co. | Solport Bros.

Wood, Vincent

CHLORIDE GOLD

Johnson, Matthay & Co.

CHLOR. OF LIME

Government Sanitary Co.

Heaton, Wright & Co.

National Chemical Co.

OHORDYNE

Blyton, Astley & Co.

Davenport (Brownie's)

Towle, A. P., & Son

CHLOROFORM

Duncane, Flockhart & Co.

Evans, Gadd & Co.

Smith, T. H., & Co.

Wright, Layman & Umney

CHOCOLATE

Cadbury Bros. | Christy & Co.

Evans, Sons & Co.

Grindlays, J.

DRY GINGER

Evans, Sons & Co.

Rawshaw & Co.

Wright, Layman & Umney

COCAINE-HYDRO.

Howards & Sons

Wright, Layman & Umney

COLAPSE TUBES

Batts & Co.

COCA WINN

Armbrecht, Nelson & Co.

French Hygiene Soc.

Lorimer & Co.

Stephen Smith & Co. (Hsu.

BURSE

Berend & Co.

Bleasdale & Co.

Burroughs, Wellcome & Co.

Evans, Sons & Co.

Hill, A. S., & Son

Hockin, Wilson & Co.

Lorimer & Co.

Putney, J. & sons

Ward & Son

Wood, Vincent

BURSE

Berend & Co.

Bleasdale & Co.

Burroughs, Wellcome & Co.

Evans, Sons & Co.

Hill, A. S., & Son

Hockin, Wilson & Co.

Lorimer & Co.

Putney, J. & sons

Ward & Son

Wood, Vincent

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Bleasdale & Co.

Burroughs, Wellcome & Co.

Evans, Sons & Co.

Hill, A. S., & Son

Hockin, Wilson & Co.

Lorimer & Co.

Putney, J. & sons

Ward & Son

Wood, Vincent

BURSE

Berend & Co.

Bleasdale & Co.

Burroughs, Wellcome & Co.

Evans, Sons & Co.

Hill, A. S., & Son

**LIME JUICE**

Evans, Sons & Co.  
Lorimer & Co.

**LINÉ**

Burgoyne, Burbidges & Co.  
Christy, T., & Co.  
Lindner & Co.  
Liverpool Linet Co.  
Maw, S., Son & Thompson  
Newsome, O.

**ROBINSOHN & SONS**

LIQUORIC  
Dennis, Di Lago & Co.

**LIQUORS**

Cooper & Co.  
Evans, Gadd & Co.  
Fletcher, Fletcher & Stevenson  
Hodkinson, Prestons & King  
Lloyd, T., Howard, & Co.  
Moss, John, & Co.  
Oppenheimer, Son & Co., Lim.  
Stearns, F., & Co.

**LOZENGES**

Allen & Hanburys  
Astley & Co.  
Gibson, R., & Sons (Manfes.)  
Gness, T., & Co.  
Hill & Son | Lorimer & Co.  
James & Co.  
Richardson, J., & Co., Lim.  
Stearns, F., & Co.  
Warwick Bros.

**MACHINERY**

Bennett, Sons & Shears (Lim.)  
Burroughs, Wellcome & Co.  
Carter, T. H.  
Gardner, W.  
Hockin, Wilson & Co.  
Hornsey, R., & Sons, Lim.  
Martin, Merle & Co.  
Palau, N., & Réra, G.  
Pinder, J. W.

Werner & Pfleiderer (Kneading and Sifting)

**MAGNESIA**

Bleasdale, W., & Co.  
Curling & Co.  
Evans, Sons & Co.  
Henry, T. & W. (Calcines)  
Hill, A. S., & Sons  
Lloyd, T., Howard, & Co.  
Lorimer & Co.  
Washington Chemical Co.

**MALT EXTRACT, &c.**

Allen & Hanburys  
Anderson & Co.  
Burroughs, Wellcome & Co.  
(Kepler's)  
Glendinning, W., & Sons (Wine)  
Hearon, Squire & Francis  
Leconte, Eugene  
Loofden Cod Liver Oil Co.  
Lorimer & Co.  
Moss, J., & Co.  
Oppenheimer, Sons & Co., Lim.  
Parke, Davis & Co.  
Baimes & Co.  
Baimes, Clark & Co.  
Richardson, John, & Co. (Lester), Lim.  
Robinson & Co.

**MARKING INKS**

Bond (Daughter of the late John) (Ink and Peuchs).

**MEDICINE CHEST**

Burroughs, Wellcome & Co.

Day, Son & Hewitt (Veterinary)

Day & Sons (Veterinary)

Richardson, J., & Co., Lim.

**MENTHOL**

Burroughs, Wellcome & Co.

Christy, T., & Co.

Evans, Sons & Co.

Hockin, Wilson & Co.

Mew, S., Son & Thompson

Shirley Bros. | Tyrer, P.

**MERCURIALS**

Howards & Sons  
May & Baker, Lim.

Tyler, T., & Co.

**METH. SPIRITS, &c.**

Boord & Son | Burrough, J.

Jones & Co.

Phillips, G., & Co.

Smith, S., & Co.

**METHYLENE**

Hobbins, J., & Co.

**MICROSCOPES**

Darton, F., & Co.

**MILK**

"First Swiss" Alpine Milk

Exporting Co., Lim.

Nestle, H. (Von der Esse)

**MORPHIA**

Macfarlan, J. F., & Co.

Smith, Bertie, & Co.

Smith, T. H., & Co.

**NITRATE SILVER**

Johnson, Matthay & Co., Lim.

**OLE ENGINE**

Hornsey, W., & Sons

Gray, W., & Co.

Matthews, H., & Co.

Pinchin, Johnson & Co.

Wandsworth Chemical Works, Lim.

**OINTMENT BASES**

Burgess, E., Jun.

Burroughs, Wellcome & Co.

(Lanoline)

Cheesbrough Co. (Vaseline)

Christy, T., & Co.

Lloyd, T., Howard, & Co.

Richardson, J., & Co. (Leicester), Lim.

**OPHTHALMIC**

Pomies, F. (Powders)

**OPIUM**

Hopf, H.

**OPTICIANS**

Botwright & Grey  
Darton, F., & Co.

**OTTO DE ROSE**

Warrick Bros.

**OXIDE OF ZINC**

Hubback, T., & Son, Lim.

**PAPAIN**

Kuhn, B.

**PAT. MEDCNS, &c.**

Anglo-American Drug Co.

(Lim.) [Preserv.]

Atkinson & Barker (Infant

Barclay & Sons, Lim.

Beecham, T. (Pills)

Bow's, Dr. Liniment

Bromley, C. (Gout and Rheu.)

Chemists' Association, Lim.

Clark's Blood Mixture

Curling & Co.

Edwards & Son

Emerson's Bromo-Seltzer

Evans, Gadd & Co.

Gibson, R., & Sons (Manfes.)

Gness, T., & Co.

Hill & Son | Lorimer & Co.

James & Co.

Richardson, J., & Co., Lim.

Stearns, F., & Co.

Warwick Bros.

**PEPPERMINT OIL**

Bush, W. J., & Co.

Hanson, W., & Son

Stevenson & Howell

**PEPSIN, &c.**

Armour & Co.

Burroughs, Wellcome & Co.

Chassaigne & Co.

Fletcher, Fletcher & Stevenson

Newberry, F., & Sons (Ingluvin)

Parke, Davis & Co.

Stearns, F., & Co.

Stearn, G. & G.

Warner & Co. (Ingluvin)

**PERFUMERY,****FANCY SOAPS**

Barclay & Sons, Lim.

Bleasdale & Co.

Boydell & Cie | Boehm, F.

Blyton, Astley & Co.

Burroughs, Burbidges & Co.

Burroughs, Wellcome & Co.

Bush, W. J., & Co.

Chemists' Association, Lim.

Cheesbrough Co.

Evans, Sons & Co.

Ewen, J. & Sons

Farina, J. M. | Greenhill & Son

Hovenden & Sons

Landine | Mulhens, F.

Newberry, F., & Sons (Berdos

Pearls, A. & F., Lim.

Potter & Clarke

Price's Patent Candle Co.

Sosio & Andrioli

Stearns, F., & Co.

Tidman & Son | Treatt, R. C.

Truefitt, H. P., Lim.

Warrick Brothers

West, T. (Okell's Mono)

Woolley, Sons & Co. (Powder)

Wright, Layman & Umney

**PEROX. OF HYD.**

May & Baker, Lim.

Robbins & Co.

Tyler, T., & Co.

**PETROLEUM**

Allen & Hanburys

Christy, T., & Co.

See Oil Co., Lim.

Snowdon, Sons & Co.

Wandsworth Chemical Works, Lim.

**PHARM. PREPS.**

Allen & Hanburys

Armour & Co.

Baiss Bros.

Barron, Harveys & Co.

Bieber, J. D. | Boehm, Fred

Boehringer, C. F., & Sohne

Boulton, J., & Co., Lim.

Burroughs, Burbidges & Co.

Burroughs, Wellcome & Co.

Curling & Co.

Edwards, F. & Co.

Hill, A. S., & Sons

Howards & Sons

Jeyes Sanitary Compounds

Lambert Pharmacal Co

Macfarlan, J. F., & Co.

May & Baker, Lim.

Moss, J., & Co.

Oppenheimer, Son & Co., Lim.

Parke, Davis & Co.

Potter & Clarke

Richardson, John, & Co. (Leicester)

Richardson, J., & Co., Lim.

Squires & Sons

Sutton, W., & Co.

Tyres & Co. | Tyler, T., & Co.

Warner, H. H., & Co., Lim.

White, Alfred, & Sons

Woolley, Sons & Co.

Wyeth, Jno., & Bro.

Zimmermann, A. & M.

**PLASTER**

De St. Dalmas, A.

Evans, Sons & Co.

Johnson, L. W.

Lesches, Lim | Mather, W., Lim.

Seabury & Johnson

**PLASTERS**

Bryth & Hincliffe, Lim.

Evans, Sons & Co.

Gernat, E., & Co.

Hockin, Wilson & Co.

May, Roberts & Co.

Squires & Sons

Sutton, W., & Co.

Tyres & Co. | Tyler, T., & Co.

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Woolley, Sons & Co.

Wyeth, Jno., & Bro.

Zimmermann, A. & M.

**PLASTERS</**

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THE NEXT OPPORTUNITY FOR INSERTING SIMILAR LISTS WILL BE IN OUR

## WINTER ISSUE, JANUARY, 1895.

### CHARGES FOR CIRCULATING 11,000 CIRCULARS, &c.

2 Pages (one leaf)	£	8	5	0	net
4 " (two loaves)	11	0	0	"	
8 " (four " )	16	10	0	"	
16 " (eight " )	24	15	0	"	

Further Particulars on application to the Publisher.

Cable and Telegraphic Address:—“BLONDEAU, LONDON.”

**“VINOLIA” CASH PRICE LIST.**

TELEPHONE NO. 7659

BLONDEAU et CIE., RYLAND ROAD, LONDON, N.W.

Orders under £2 are nett.

£2 to £5 Orders,  $2\frac{1}{2}$  per cent., and cash discount of  $2\frac{1}{2}$  per cent. (making 5 per cent. in all).£5 Orders and upward,  $7\frac{1}{2}$  per cent. , , , , ( , 10 , , ), and carriage paid.On Orders amounting to not less than £2, for any of the preparations enumerated on page 3, we allow our bottom terms of  $7\frac{1}{2}$  per cent. and  $2\frac{1}{2}$  per cent. (making 10 per cent. in all), and carriage paid.The discounts in each case are taken off Trade Prices, and therefore equal to the full 5 per cent. or 10 per cent. as the case may be, but the  $2\frac{1}{2}$  per cent. is treated as a **CASH DISCOUNT**, and will not, under any circumstances, be allowed if remittance is not received within ten days from the date of invoice.

If payment is not made within thirty days no discount whatever will be allowed off Trade Prices, and the account will be referred to a Commercial Agency for collection in every case without exception, to save ourselves further trouble. Orders under £2 must be accompanied with cash, or pro forma invoice will be sent—re Packing Cases—see note at foot of page 3.

Carriage as above will only be paid to customers who have signed or who sign our cutting agreement.

THESE TERMS ARE NOT AVAILABLE TO THOSE WHO SELL BELOW OUR STIPULATED MINIMUM CUTTING PRICES.

N.B.—In the absence of distinct instructions to the contrary quantities of soaps ordered are always read as dozen boxes and not as dozen tablets.

It is necessary to hold a Patent Medicines License (Annual 5s.) for the sale of “Vinolia” Cream.

“Vinolia” is put up in Special Boxes for Hot Countries.

**“VINOLIA” SOAP.**

Retail Prices Each.	Trade Prices per Doz.	Minimum Cutting Prices Each.
---------------------------	-----------------------------	------------------------------------

PREMIER, per box of 3 tablets	1/-	9/2
,     , 12     ,	4/-	36/7
,     , 36     ,	12/-	110/-

FLORAL     ,     3     ,	1/6	13/9
,     tablet in cartoon	6d.	4/7

BALSAMIC (Medical), per box of 3 tablets	2/-	18/4
,     ,     ,     ,	2/-	18/4

OTTO (Toilet)     ,     ,	2/6	22/10
,     ,     ,     ,	2/6	22/10

VESTAL     ,     ,     ,	7/6	68/6
,     ,     ,     ,	7/6	68/6

**“VINOLIA” MEDICATED SOAPS.**

SULPHUR     ,     ,     ,	1/-	9/1
CARBOLIC     ,     ,     ,	1/-	9/1
TEREBENE     ,     ,     ,	1/-	9/1
COAL TAR     ,     ,     ,	1/-	9/1

**“VINOLIA” SHAVING SOAPS.**

Premier Sticks in cardboard cases	6d.	4/-	5d.
,     Flat Cakes in silver-blocked celluloid cases	1/-	8/-	10d.

Premier Flat Cakes, in elegantly decorated glass-topped boxes, to contain Half-Dozen and One Dozen, 4d. and 6d. extra respectively.

Toilet, Sticks in silver-metal cases	small	1/-	9/2	10d.
,     ,     ,     , medium	1/6	13/9	1/3	
,     ,     ,     , large	2/6	22/10	2/2	

,     Flat Cakes in porcelain-lined metal boxes	2/-	18/4	1/8
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Vestal, Sticks in silver-metal cases	-	18/4	1/8
,     Flat Cakes in silver-metal boxes	3/-	27/6	2/6

**BLONDEAU’S PURE TOILET SOAPS WITH FAVORITE PERFUMES.****BLONDEAU’S COLD CREAM SOAP**

,, CUCUMBER AND GLYCERINE ,,

,, LYS DE FRANCE ,,

,, MARÉCHAL NIEL ,,

,, ORIENTAL ,,

,, HELIOTROPE ,,

,, MUSK LAVENDER ,,

,, LETTUCE ,,

,, MAREQUIL ,,

,, JEQUILLA ,,

,, VIOLET ,,

,, OPOPONAX ,,

Per Box of 3 Tablets	Retail Prices Each.	Trade Prices per Doz.	Minimum Cutting Price
6d.	2/-	16/-	16/-
Per Box of 3 Tablets	Per Box of 3 Tablets	Per Box of 3 Tablets	Per Box of 3 Tablets
1/6	3/-	24/-	2/3
	3/-	24/-	2/3

The above are supplied in boxes containing each three tablets. The box for each Soap is different, the design in every case being the work of a distinguished English artist, while the color-printing is quite equal to any that has ever been done abroad. The Soaps themselves consist of “Vinolia” Soap basis, and are perfumed with various popular and delicate scents to meet the widest possible field of requirements. Every care has been exercised in their manufacture, and to ensure perfect satisfaction we had some of each Soap made, scented, and kept for two years. At the end of the time the Perfume came out beautifully. Needless to say all these brands are of great perfection. We feel confident the trade will agree with us that for quality, appearance, and perfection, they represent a degree of enterprise that has not been surpassed.

## OLD ENGLISH TOILET SOAPS (IMPROVED).

BLONDEAU'S CLARIFIED BROWN WINDSOR SOAP	2d. per tablet. Box containing	
BLONDEAU'S HONEY SOAP	1 doz. tablets 1/6	
BLONDEAU'S ELDERFLOWER SOAP	3 " " 4/6	
	6 " " 9/-	
BLONDEAU'S OATMEAL SOAP	Minimum Cutting Prices	
BLONDEAU'S ALMOND AND GLYCERINE SOAP	2d. per tablet.	
BLONDEAU'S WHITE ROSE AND CUCUMBER	3 tablets for 5d. 1 box of 12 tablets 1/8	

## "VINOLIA" PERFUMES.

	Retail Prices Each.	Trade Prices per Doz.	Minimum Cutting Prices Each.
Marequill	-	-	-
Jequilla	-	-	-
Vinolia Bouquet	-	-	-
Losaria	-	-	-
OPOPOXAX	-	-	-
STEPHANOTIS	-	-	-
WHITE HELIOTROPE	-	-	-
YLANG-YLANG	-	-	-
JOCKEY CLUB	1/3	10/-	1 1/2d.
WHITE ROSE	1/9	14/-	1/4
WOOD VIOLET	3/-	24/-	2 3/4
FRANGIPANNI	5/-	40/-	3 9/2
MILLEFLEUR	9/-	72/-	6/10
MARÉCHAL NIEL	-	-	-
ESS BOUQUET	-	-	-
MUSK	-	-	-
AMBERGRIS	-	-	-
AMARYLLIS	-	-	-
WHITE LILAC	-	-	-

Each. Per Doz.  
Samples of above 3d. 2/-

One Stand to any retailer for Counter, to hold one dozen perfume samples, free with £5 order of our goods, which must include at least two dozen perfume samples.

## "VINOLIA" SHAVING FOAM.

Toilet, in collapsible tubes	1/-	9/2	10d.
" " "	1/6	13/9	1/3
Vestal	2/6	22/10	2/2

"VINOLIA" SHAVING BAR {SUPPLIED ONLY TO HAIRDRESSERS.  
In boxes of 10 lbs., 6 Bars to each lb., 10/- per box.

Fine Pottery Dishes for above, 12/- per doz.

## "VINOLIA" CREAM.

	Retail Prices Each.	Trade Prices per Doz.	Minimum Cutting Prices Each.
Half-small size stamped	-	1/1 1/2	10/8
,, " " unstamped	-	1/-	9/2
Small stamped	-	1/9	16/9
,, unstamped	-	1/6	13/9
Medium stamped	-	3/6	33/4
,, unstamped	-	3/-	27/4
Large stamped	-	6/-	57/8
,, unstamped	-	5/-	45/8

"Vinolia" unstamped is for compounding Prescriptions only.

## "VINOLIA" POWDER.

Half-small size	-	-	1/-	9/2	10d.
Small	-	-	1/9	16/-	1/6
Medium	-	-	3/6	32/-	3/-
Large	-	-	6/-	54/9	5/3

"Vinolia" Powder is prepared in white, pink, and cream tints.

## "VINOLIA" DENTIFRICE.

No. 2, in metal boxes	-	-	6d.	4/-	5d.
" " " "	-	-	1/-	8/-	10d.
American	-	-	1/6	13/9	1/3
,, 4 oz., in finest hand-made Old English glass bottles	-	-	4/6	41/-	3/9
,, 8 ,, , , ,	-	-	7/6	68/6	6/3
English	-	-	2/6	22/10	2/2
,, 4 oz., in finest hand-made Old English glass bottles	-	-	7/6	68/6	6/3
,, 8 ,, , , ,	-	-	13/6	123/-	11/3

## "VINOLIA" EAU DE COLOGNE.

No. 1, 2 oz. small bottles	-	1/6	9/6	10 1/2d.
,, 2, 4 ,, large	,	2/6	17/3	1 7/2
,, 3, small wicker	,	3/6	27/3	2 5/2
,, 4, medium	,	6/6	55/-	4 10

Nos. 1 and 2 are packed in thin light wooden cases of One Dozen and Half-Dozen respectively.

Samples of above - - 3d. 2/-

An artistic fan-shaped card to hold one dozen Eau de Cologne samples, in best English-made green glass bottles, will be supplied free to customers ordering not less than six dozen samples, and for the first time.

## "VINOLIA" POMADE.

In Antique Porcelain Vase - 3 6 32/- 2/11

## LAIT "VINOLIA."

In Elegant Porcelain Vase - 4 6 41/- 3/9

Goods that have become shopworn or unsaleable can be exchanged for others of equal value, provided always that the goods returned have been retained in stock not less than six months.

The small and medium sizes of Eau de Cologne in wicker cannot be returned, as the bottles are expensive and we cannot do them up again.

**"VINOLIA" BRILLIANTINE.**

	Retail Prices Each.	Trade Prices per Doz.	Minimum Cutting Prices Each.
For the Hair	-	1/-	8/- 9d.
" "	-	2/-	16/- 1/6
" "	-	3/6	28/- 2/7
For the Moustache	-	1/-	8/- 9d.
" "	-	2/-	16/- 1/6
" "	-	3/6	28/- 2/7

**"VINOLIA" PASTILLES.**

	Retail Prices Each.	Trade Prices per Doz.	Minimum Cutting Prices Each.
For the Voice	-	per box	1/- 9/2 10d.

**MINIATURE SAMPLES.**

	Retail Prices Each.	Trade Prices per Doz.
" VINOLIA" SOAP ( <sup>Otto of Rose,</sup> Toilet)	1½d.	1/-
" " (Balsamic, Medical)	1½d.	1/-
" " (Premier)	2d.	18/4
POWDER	3d.	2/-

NOTE.—These miniature Samples can be obtained on artistic cards, the cards only being supplied free of charge, the whole forming a most attractive and profitable addition to the Chemist's Counter.

**LYPSYL.**

A Coralline Emollient for the Lips, in flat metal boxes	1/-	9/2	10d.
In fluted silver-metal tubes	6d.	4/7	5d.
" " "	1/-	9/2	10d.

*The following are the preparations upon which we allow our bottom terms on £2 orders :—*

## BLONDEAU'S CLARIFIED BROWN WINDSOR SOAP.

„	HONEY SOAP.
„	ELDER FLOWER SOAP.
„	OATMEAL „
„	ALMOND AND GLYCERINE SOAP.
„	WHITE ROSE AND CUCUMBER SOAP.
„	PREMIER "VINOLIA" SOAP.
„	SULPHUR „ „
„	CARBOLIC „ „
„	TEREBENE „ „
„	COAL TAR „ „
„	" VINOLIA" POWDER, 1/- size.
„	CREAM, 1/1½- „
„	PREMIER SHAVING STICKS, 6d.
„	„ „ CAKES, 1/-
„	„ „ DENTIFRICE, No. 2, 6d.

## ANY OF THE MINIATURE SAMPLES.

Packing Cases, in order to save trouble and book-keeping, are not charged for on invoice, but they should be returned, as we are unable to supply them free of charge. In a majority of the more prominent places we have appointed Agents to whom the empties should be handed, or who will collect them periodically and return them to us, at our expense.

On the Southern lines, it will be more convenient for us if Cases are returned to the following London Goods Depots, consigned to our order :—

London and South Western Railway, Nine Elms ;  
 London, Chatham and Dover Railway, Blackfriars ;  
 London, Brighton, and South Coast Railway, Willow Walk ;  
 South Eastern Railway, Bricklayer's Arms.

Cases not received back will be charged for at cost price.

# "VINOLIA" PREPARATIONS.



"VINOLIA" POWDER.  
In 3 tints—Pink, White, and Cream.  
1/-, 1/9, 3 6 and 6/-



PREMIER  
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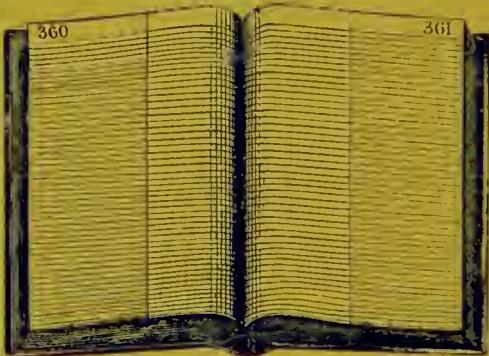
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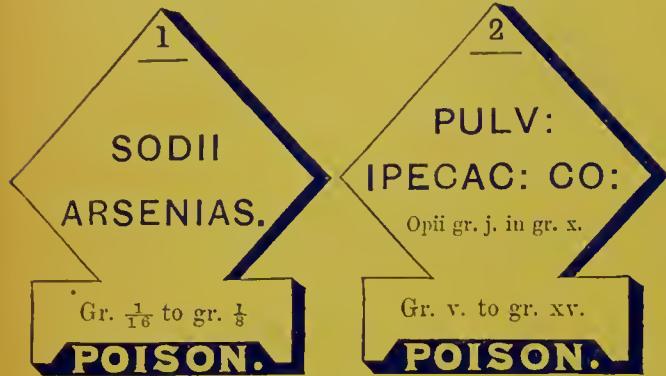
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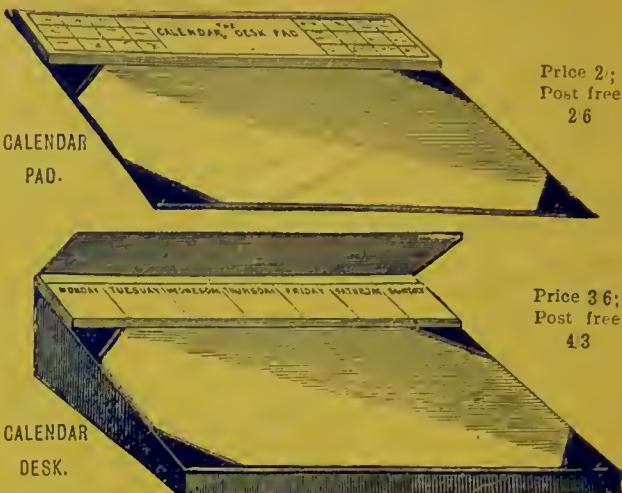
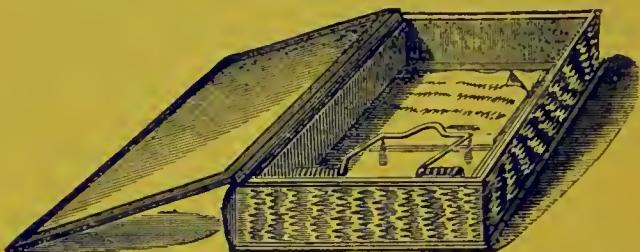
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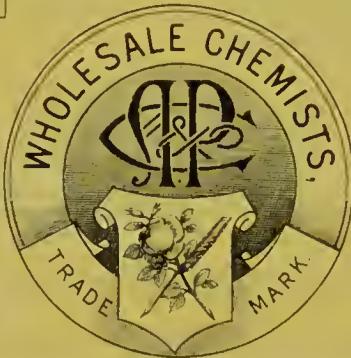
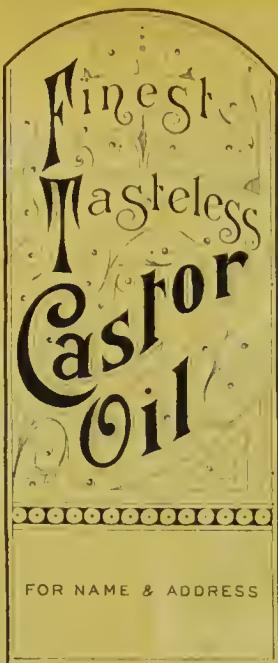
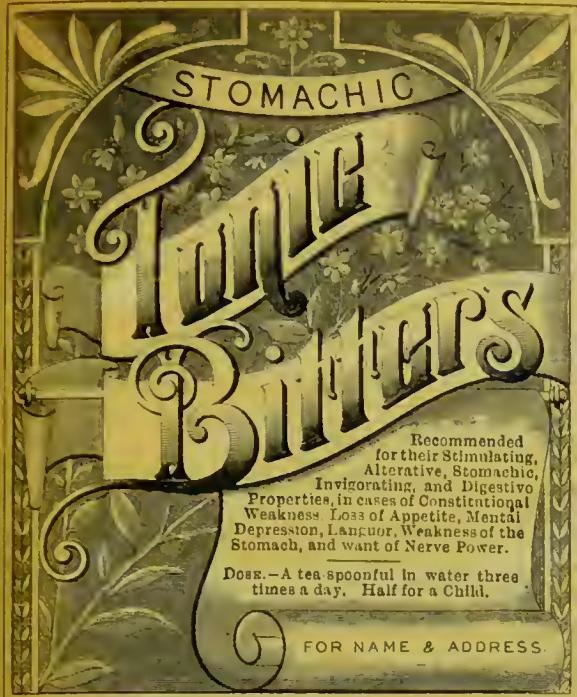
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(LATE OF WARDROBE TERRACE, DOCTORS' COMMONS,)

92, BLACKFRIARS ROAD, LONDON, S.E. \*

CITY OFFICE:—79, KNIGHTRIDER STREET, DOCTORS' COMMONS, E.C.



TOWNSEND'S SPECIALITY.  
ROUND CORNER  
SLIPS.

Pure Glycerine.

W. J. HEPBURN,  
*FAMILY & DISPENSING CHEMIST*  
BEAULY  
1/3 1000.

TURKEY RHUBARB.

SYMONS, Chemist,  
PENZANCE.

1/6 1000.

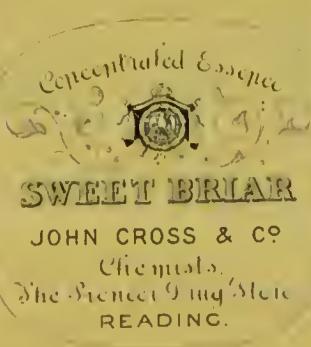
VICTOR J. WOOLLS, A.P.S.  
DISPENSING CHEMIST  
BY EXAMINATION

Purified Epsom Salts.

THE MARCATE DRUG STORES,  
16, CECIL SQUARE & QUEEN STREET,  
MARCATE

1/9 1000.

JAMES TOWNSEND, medical Label Printer.  
EXETER.



JAMES TOWNSEND, \*

Medical Label Printer,  
LITTLE QUEEN STREET, EXETER.

TOWNSEND'S  
HANDBILLS.

WHITE PAPER.

	5.000	10,000	
	s. d.	s. d.	
Crown 16mo.	5 0	7 6	
Demy 16mo.	6 6	10 0	
Crown 8vo.	7 6	11 6	
Demy 8vo.	11 0	17 6	
Crown 4to.	16 6	24 0	
Demy 4to.	22 6	35 0	

NET.

TOWNSEND'S  
ALMANACKS



FOR

1895.

PURSE ALMANACK,  
BOUQUET ALMANACK,  
UNIVERSAL ALMANACK,

Will shortly be ready.

Please send a Post Card for Samples.

IF YOU REQUIRE

CHEAP  
HIGH-CLASS

PRINTING

Suitable for the Chemists' Business, send for Samples, or

IF YOU PROPOSE ISSUING A

PRICE LIST \*



SEND FOR QUOTATIONS TO

JAMES TOWNSEND,  
Medical Label Printer,-EXETER.

TOWNSEND'S

SPECIAL RAINBOW BILLS.

EVERY CHEMIST SHOULD SEE THESE.

	5,000	10,000	
	s. d.	s. d.	
Crown 16mo.	10 0	15 0	
Crown 8vo.	13 0	21 0	
Crown 4to.	26 0	42 0	

NET.

TOWNSEND'S

TINTED PAPER CIRCULARS.

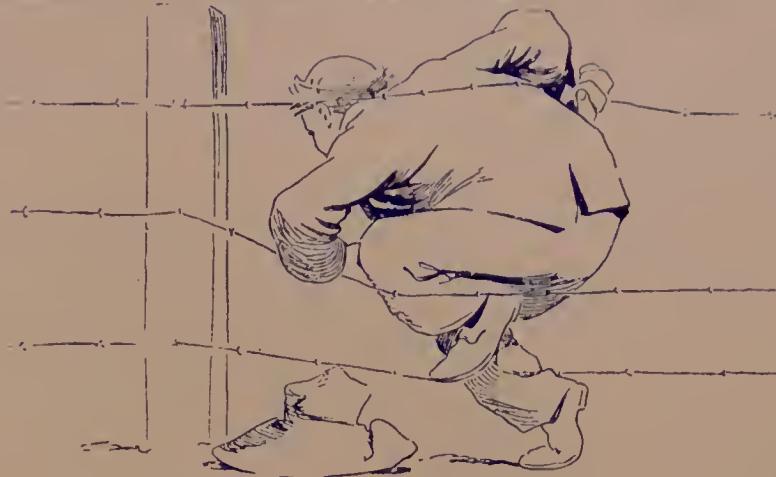
	5,000	10,000	
	s. d.	s. d.	
Crown 16mo.	7 6	11 0	
Demy 16mo.	9 6	14 6	
Crown 8vo.	11 0	17 6	
Demy 8vo.	16 6	25 0	
Crown 4to.	22 0	35 0	
Demy 4to.	33 0	50 0	

NET.

CHEMISTS' SPECIALITIES.

Billheads.	Memorandum Forms.
Blotting Papers.	Postal Boxes.
Card Price Lists.	Powder Envelopes.
Circulars.	Prescription Books.
Colored Demy.	" Envelopes.
Colored Surface Enamels.	Saline Wrappers.
Envelopes, Powder.	Sealing Wax.
" Prescription.	Seidlitz Demy.
" Tooth Brush.	Tooth Brush Envelopes
" Vermin Killer.	Twines.
Gold Paper Labels.	Vermin Killer Envelopes
Linseed Meal Bags.	Wrapping Papers.

# Barbed Points For Business Men.



## What is a Circular?

A helpmate to prosperity in business.

The life-blood of modern business

A money-maker, getter and saver.

A notice that brings best returns for the least money.

The key-note of progress in the march to success.

The dealers' sure road to success.

An intelligent message to intelligent people.

The cornerstone of the Temple of Fortune.

The "Limited Express" on the road to success.

Personal and public benefits are derived from its judicious distribution.

## Applied to Business,

*the Froggy Fable means this: the man who looks for bad times and becomes dormant and fainthearted directly the business outlook becomes cloudy, will not survive to see good times, for he lets a golden opportunity slip by.*

## A Letting-go of Opportunities

*leaves room for some other hand to take hold, for the business of the country must and will be done at all times. But you will never create a sensation by following the crowd. You must get "away from the pack." Keep jumping, in fact.*

## Nervy, Nousy Men

*make the money by getting the business. When competitors are crying hard times and drawing into their shells, the men of will send out extra Circulars, and by commanding the attention of the people, secure the trade. Any one can make money in flush times; men with the know how and nerve can do fully as well other times. People buy the goods they want at all times because they need them.*

## Experience does it.

*To make money now you must be willing to spend some. Many seem to think that it is only a new article that needs advertising, but that is a mistake. Judicious advertising is not only the best way to make customers, but it is the cheapest as well. It gets them and it keeps them for you.*

## Individuality is the inherent strength of a Circular.

*A circular without display is equally without character or individuality—like a face lacking expression. A poorly displayed advertisement is an unworthy representation of any man's business. We have practical ideas that we are willing to communicate to interested parties who will treat us fairly and confidentially. We respectfully ask you for a trial.*

## We are Printers,

*and execute every description of work in the best style, and we beg to assure Home and Colonial Friends that our best efforts are always at their service. Any orders sent direct to us or through London houses will have the most prompt and careful attention. Full particulars and samples will be sent on receipt of postcard, and full London value will be given for any remittances that may be sent us.*

Messrs. BOWERS BROTHERS,

The Medical Printers and Attractive Circular Experts,

89, Blackfriars Road, London, S.E.,

Solicit your kind consideration.

# Once upon a Time



## Pluck Wins.

*It always wins;  
Though days be slow and  
nights be dark  
'Twixt days that come and go,  
still—  
Pluck will win.  
Its average IS SURE.  
He gains the prize who can the  
most endure;  
Who faces issues;  
He who NEVER SHIRKS,  
Who waits and watches, and  
WHO ALWAYS WORKS.*



There's Milk in  
the Cocoanut.

## Two Frogs

found themselves in a Pail of Milk, and they could not jump out.

One turned faint-hearted and said to the other, "Good-bye, I sink, I die."

Said his nervy, nousy chum, "Brace up, you duffer, keep jumpin', and see what turns up."

So they kept on jumping up and down all night, and by morning had so churned the Milk that it turned to Butter, and, lo! they escaped safe to land!

P.T.O.

**BOWERS BROTHERS,** The Chemists'  
Effective Printers,  
89, Blackfriars Road, London, S.E.,

Respectfully solicit a Trial of their Work.

TRANSATLANTIC JET BLACK.  
DOES NOT CORRODE STEEL PENS  
NEVER THICKENS OR DEPOSITS.



**DRAPER'S INK, (DICHROIC)**  
**The Best Black Ink known**  
**Flows Easily from the Pen,**  
**DRIES RAPIDLY,**  
**AND IS CLEANLY TO USE.**

BEWLEY & DRAPER  
LIMITED.  
DUBLIN.

**Adopted by all the principal Banks, Railway Companies and Public Offices, Her Majesty's Customs, and Trinity College; also supplied to the "Alert" and "Discovery" during the last Arctic Expedition.**

## SELECTIONS FROM TESTIMONIALS.

**DRAPEE'S DICHROIC INK.**—The difficulty of obtaining an Ink which will really answer the purpose for which it is intended, without accom-  
plishing a number of other results, both unforeseen and undesired, is  
proved by the number of applications with which we are honoured  
for a recipe for a "really good Black Ink." We have made many  
attempts, but we confess that we do not know how to make "a really  
good Black Ink." We can prepare an infinite variety of Inks, but a  
model Ink like Drapee's Dichroic is beyond our power. Seriously,  
this Ink is about the best which can be bought, and whether for their  
own use, or for sale, our readers will do well to take our recomenda-  
tion, and keep it in stock.—*Chemist and Druggist.*

CLIFTON, January 9th, 1874.

SIR.—I have now used your Ink for several years, and, though formerly I was constantly worried by the badness of Ink (and I have tried many of those reputed to be the best) in writing my prescriptions, I now find it quite a pleasure to write. Detailed eulogy is superfluous. I can only say the Dichroic Ink is perfect.—Yours truly,

CHARLES R. MAXWELL, Physician.

**Extract from the Letter of an Indian Correspondent.**  
MOULIAN, June 17th, 1872.  
"Tell Drapee that his Ink is splendid here. When it dries up it bears watering, which no other Ink will do."

### From the Rev. C. H. SPURGEON.

Thanks are due to a friend who has sent us a supply of Drapee's Dichroic Ink; it is, in our judgment, the very best for rapid writing. Even with the Dichroic Ink, we are occasionally unable to write a favourable review.—*The SWORD and the TRIDENT.*

### IMPORTANT TO PHONOGRAPHERS.

EXTRACT FROM A LETTER OF MR. ISAAC PITMAN.  
*I have been using your "Dichroic Ink" for the last week, have written much with it, and take it exceedingly. It is extremely fluid, does not thicken on the pen and put it out of order, and dries very quickly.*

We are aware that many persons can write with a skewer upon anything in the shape of paper. They are to be envied. We are not of the happy number. We require a good pen and good paper, and, though hast, nor least, good ink. We are not now going to say which pens or which paper we prefer, but for the past twelve months we have used no other Ink than Drapee's Dichroic. It is manufactured by a firm of Chemists in Dublin, and is not so well known in the stationery trade as it deserves to be.—*The Stationery Trades' Journal*, March, 1880.

The *tiquor sanguinis* of literature—ink—has never been as pure and agreeable fluid as it ought to be, considering how necessary its cordial co-operation is to pleasant writing and profitable reading. Can we not easily imagine that a sudden infusion of gall into the placidity of a leading article may result from the passing unnoticed of a smudge in the ink-bottle! And how hard it must be to do jokes for the comic journals when your ink will insist on either issuing from your pen in horrid blobs, or else leaving no mark at all. At last all this is changed. No longer is the ledger-writer to be condemned rash ranour to instill "Dichroic" into his phrases in unconscionable mud. A new ink, called "Dichroic," has just been discovered, and brought out, by Messrs. BREWERY AND DRAPER, of Dublin. The "Dichroic Ink" is a perfect solution, and therefore leaves no sediment. It is free from acid and does not corrode the pen. It runs freely and easily, and without greasiness, from tip to pen's point. It becomes black in a few seconds, sinks into the paper so rapidly as seldom to require blotting-paper, and is more indelible than ordinary ink.—*Medical Press and Circular.*

JULY 28, 1891

SUPPLEMENT TO THE CHEMIST AND DRUGGIST

# TRIA JUNCTA IN UNO

(THREE COMBINED IN ONE)



## GLENDENNINGS Beef and Malt Wine

W.F. JOEL.

Apis

Sole Proprietors:-

**WM. GLENDENNING & SONS,**  
IMPORTERS OF SPECIAL WINES FOR INVALIDS,  
**NEWCASTLE-ON-TYNE.**

# CHEMISTS WHO STOCK GLEN DENNING'S BEEF & MALT WINE

Find their Sales Increase.

Chemists who do not hold a Wine Licence are asked to communicate with us with the object of increasing their income.

The most eminent of the Medical Profession constantly do us the honour of prescribing

## GLEN DENNING'S

particularly—and for this reason—because our Preparation is Reliable and the best.

### WE USE

KEPLER MALT EXTRACT,  
MOSQUERA BEEF JELLY, and  
OLD ALTO-DOURO PORT WINE,

SHIPPED BY ONE OF THE LEADING PORT WINE SHIPPERS.

SOLD AT

**3/9 PER BOTTLE. 2/- PER HALF-BOTTLE.**

The Wholesale Cost leaves a Handsome Profit, as the Selling Price is well maintained.

Terms and further particulars from the Sole Proprietors,

**WM. GLEN DENNING & SONS,**

*Wine Merchants and Importers of Special Wines for Invalids,*

**NEWCASTLE-ON-TYNE.**

ESTBD. 1867.



# UNSWEETENED CONDENSED MILK, “FIRST SWISS” BRAND

London Offices : 17 & 18, ST. DUNSTAN'S HILL, E.C.

The Proprietors of the “First Swiss” Brand beg to call the attention of parents to the immense value of their Unsweetened Condensed Milk for Infants and young children. They contend that it is nature's substitute for that which cannot sometimes be obtained; unquestionably the best food for an infant is what it receives from its mother, failing that the “First Swiss” Brand of Unsweetened Milk is immeasurably in advance of all other Milks and Foods, some of the reasons for this assertion will be found in the accompanying analysis and report.

The “First Swiss” Brand is a pure, fresh Alpine Milk of the richest and highest character, and can always be depended upon to be exactly the same unvarying quality (the rich grass, clean waters and pure air of the Swiss mountain slopes afford a wonderfully healthful and nourishing milk; give it to infants artificially fed and note the increased brightness and healthful vivacity that takes place), it contains no preservative whatever, while the great heat employed in condensation and conservation completely destroys any possible disease germs that might have found their way into the fresh milk. It therefore follows that provided filtered water is used when mixing, the milk is absolutely pure, and infection or disease germs impossible; an assertion the very cleanest and best kept dairy in the world could not truthfully make.

There may be perhaps some difficulty in procuring the “First Swiss” Brand as many tradesmen do not care to keep two condensed milks, and so persuade customers to buy the ordinary sweetened kind, but the “First Swiss” Brand should be obtainable at the best Grocers and at all Co-operative Stores.

In buying accept only the “FIRST SWISS” BRAND.

SEVEN PRIZE MEDALS.



THE

"FIRST SWISS" Alpine Milk Exporting Co., Ltd.

ROMANSHORN. SWITZERLAND.



London Offices:

17 & 18, ST. DUNSTAN'S HILL, LONDON. E.C.

UNSWEETENED CONDENSED MILK,

"FIRST SWISS" BRAND.

As an Infant's food the **Unsweetened** Condensed Milk "FIRST SWISS" Brand unquestionably stands before all other artificial foods, being pure Alpine Cow's Milk, condensed to about a quarter of its bulk, then hermetically sealed, sterilized and conserved, without the aid of sugar or any preservative whatever. Unopened it keeps perfectly sound, sweet and good, in any climate for an unlimited number of years, and when opened will keep three times as long as fresh milk would in that climate; while the **absolute immunity** it affords from **Diphtheria, Scarlet Fever, and all those diseases whose usual channel of infection is too often the daily milk supply** should render it a household necessity, but the difficulty of obtaining it from the grocer who will only sell sweetened milk because it is easier to sell and sells more largely, prevents its more general use. To remedy this, Chemists are informed that the "First Swiss" Brand of Unsweetened Condensed Milk price 21/- per case of 48/- tins can be obtained from the above office and that on receipt of P.O. or Cheque the required number of cases will at once be forwarded.



¶ In ordering ask for and accept the "FIRST SWISS" BRAND, and no other.



SEVEN PRIZE MEDALS.

THE  
"FIRST SWISS" Alpine Milk Exporting Co., Ltd.  
ROMANSHORN, SWITZERLAND.

London Offices—17 and 18, ST. DUNSTAN'S HILL, E.C.

FACTS OF VAST IMPORTANCE TO PARENTS.

(*The writer of the following letter is entirely unknown to the FIRST SWISS Co. or anyone connected with it, it is absolutely spontaneous and genuine.*)

84, BATH ROW, BIRMINGHAM.

GENTLEMEN,

As I feel I owe you a debt of gratitude, I think my best course of showing it is to acquaint you with a few particulars respecting the use of your Unsweetened Condensed Milk, "First Swiss" Brand.

I have had three little ones, the first we had a deal of trouble with, as we had to bring him up by hand, and, what with bad advice from the nurse, the doctor, and suggestions from friends to try this and the other advertised Infants' Food our little one never thrived, although a healthier boy at birth could not be found; but nothing nourished him, he was always craving and ultimately this system of improper feeding ended in Tabes Mesenterica setting in and then death at seven months old.

When our second baby arrived, we at first experienced the same difficulty with the same unhappy results, until I acted on the advice of a homœopathic doctor and he, I believe providentially, persuaded us to give her your milk and nothing else, she soon began to pick up, and to the surprise of our friends who had one and all thought she would never live, we could see she was filling out and being properly nourished, she is now a healthy child of nearly two years of age.

Our third baby we were determined to bring up in the same way, and have done so with equal success; and although she has just passed through a very severe time with vaccination, yet weighs, at 17 weeks, 12 lbs. 6 ozs. and seems thoroughly healthy and strong.

My great wish is that I could persuade all young parents as to the advisability of feeding their children, from the first, as directed on your tins, for I have proved its value on my own children and should be glad for others to have the benefit of my experience. I need hardly tell you that where I can I recommend it. In one case in particular it was the means, through the Almighty's mercy, of saving a little one's life!

I regret there are so few shops who keep it, whereas there are hundreds who keep the Sweetened Milk, which owing to the excess of cane sugar cannot agree with most infants.

You are perfectly at liberty to use this letter in any way you like, and I shall be most pleased to testify to anybody as to the value of your Unsweetened Milk as an infants' food.

Believe me, Gentlemen,

Truly yours,

CECIL SMITH.

To the

FIRST SWISS ALPINE MILK EXPORTING CO.,

17 & 18, ST. DUNSTAN'S HILL, LONDON, E.C.

I have carefully analysed a sample of your **Unsweetened Condensed Swiss Milk, FIRST SWISS BRAND**, with the following highly satisfactory results.

Water	...	...	...	...	...	61.3
Caseine	...	...	...	...	...	9.1
Soluble Albumen	...	...	...	...	...	1.5
Fat	...	...	...	...	...	11.7
Lactose	...	...	...	...	...	14.3
Salts (mineral matter)	...	...	...	...	...	2.1
						100.0

There was **no trace of Cane Sugar or other preservative**. I found it to be simply milk with the excess of water removed. It formed a perfect emulsion with water which possessed all the characteristics and properties of **fresh cow's milk**. I also examined the milk microscopically, and found it **absolutely free from micro-organisms**. The fat globules were normal, and had undergone no change during the evaporation. I carefully compared the action of a standard preparation of pepsin and pancreatic juice on the condensed milk, diluted with water, and on fresh cow's milk. I found that the components of the condensed milk were **somewhat more digestible than the constituents of the fresh milk**. The milk I found to be perfectly free from the sickly taste which characterises the ordinary condensed milk.

I cannot too highly commend the milk to those who use condensed milk for their infants.

Cane sugar, which is added to ordinary condensed milk to preserve it in the proportion of about 40 per cent. gives an excess of caronaceous material, **very harmful to the body**.

There is a **special objection to cane sugar as food for infants**. It undergoes fermentation in the intestines, and produces wind and other intestinal disarrangements. The Unsweetened Condensed Milk being free from cane sugar, **cannot act thus injuriously, but is a safe and perfect substitute for mothers' milk**, and I have no hesitation in strongly recommending it to all mothers as a model food for infants.

I have also ascertained that the milk is exceedingly useful for cooking purposes, as the strength may so easily be regulated, and being free from cane sugar may be used for all culinary purposes.

(Signed) JOHN GOODFELLOW, F.R.M.S., LONDON.

Prof. of Physiology and Hygiene.

Member of the Societe d'Hygiene, France.

Author of "Personal and Home Hygiene," "Food and Work,"

And Joint Author of "Practical Physiology," &c., &c.

# FRUIT SYRUPS.

NON-ALCOHOLIC WINES, AND  
MEDICATED WINES, IN BOTTLES.

## FRUIT SYRUPS.

Winter, Summer, & Tonic Beverages.

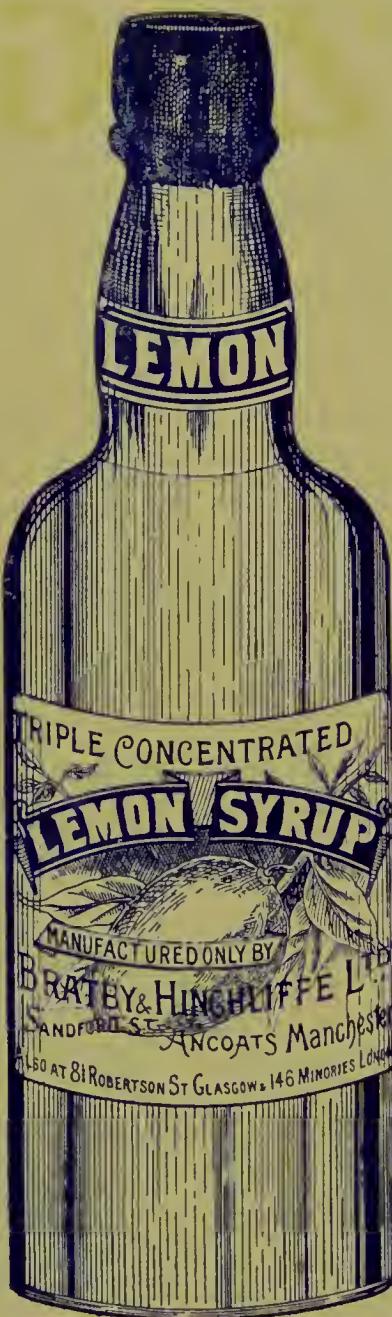
(Highly Concentrated)

The following are put up in two sizes.

Bottles included in price.

Jars and Casks charged extra.

	REPUTED PINT PER DOZ.	REPUTED QUART PER DOZ.	GALLONS PER GALLON.
Triple Concentrated			
MORON SYRUP .....	7/6	12/6	5/-
ANGER .....	7/6	12/6	5/-
ME FRUIT SYRUP .....	7/6	12/6	5/-
ANGE .....	7/6	12/6	5/-
RAWBERRY .....	7/6	12/6	5/-
SPBERRY .....	7/6	12/6	5/-
ACK Currant SYRUP	7/6	12/6	5/-
ED Currant .....	7/6	12/6	5/-
ERRY .....	7/6	12/6	5/-
PPERMINT .....	7/6	12/6	5/-
OVE .....	7/6	12/6	5/-
LT .....	7/6	12/6	5/-
RSAPARILLA .....	7/6	12/6	5/-
SPBERRY VINEGAR .....	7/6	12/6	5/-
OSPHATED .....	11/-	16/-	10/6
ININE .....	11/-	16/-	10/6
EMON SQUASH .....	7/6	12/6	5/-
ME & RASPBERRY .....	7/6	12/6	5/-
ANGE & RASPBERRY .....	7/6	12/6	5/-



## WINES.

### NON-ALCOHOLIC, (IN BOTTLES.)

(6 TO THE GALLON)

JAMAICA GINGER	... ...	8/6 Doz.
GREEN GINGER	... ...	8/6 ,,
ORANGE	... ...	8/6 ,,
RICH RAISIN	... ...	8/6 ,,
DRY RAISIN	... ...	8/6 ,,
BLACK CURRANT	... ...	8/6 ,,
RED CURRANT	... ...	8/6 ,,
WHITE CURRANT	... ...	8/6 ,,
ELDER	... ...	8/6 ,,
RASPBERRY	... ...	8/6 ,;
GOOSEBERRY	... ...	8/6 ,,
COWSLIP	... ...	8/6 ,,
GRAPE	... ...	8/6 ,,
CHERRY	... ...	8/6 ,,
ORANGE TONIC	... ...	8/6 ,,
QUININE TONIC	... ...	8/6 ,,
MUSCATEL	... ...	8/6 ,,

### MEDICATED WINES.

Reputed Pints.

Kola Wine	.. 3/6 size bot.	27/6 Doz
Tonic Kola Wine	3/6 ..	27/6 ,,
Coca Wine	3/6 ..	18/- ,,
Quinine Wine (B.P.)	6 to gal.	17/- ..
		Imperial Pints 14/6 ..
Iron Wine (B.P.)	3/6 size bot.	27/6 ,,
Rhubarb Wine (B.P.)	3/6 ..	27/6 ,,

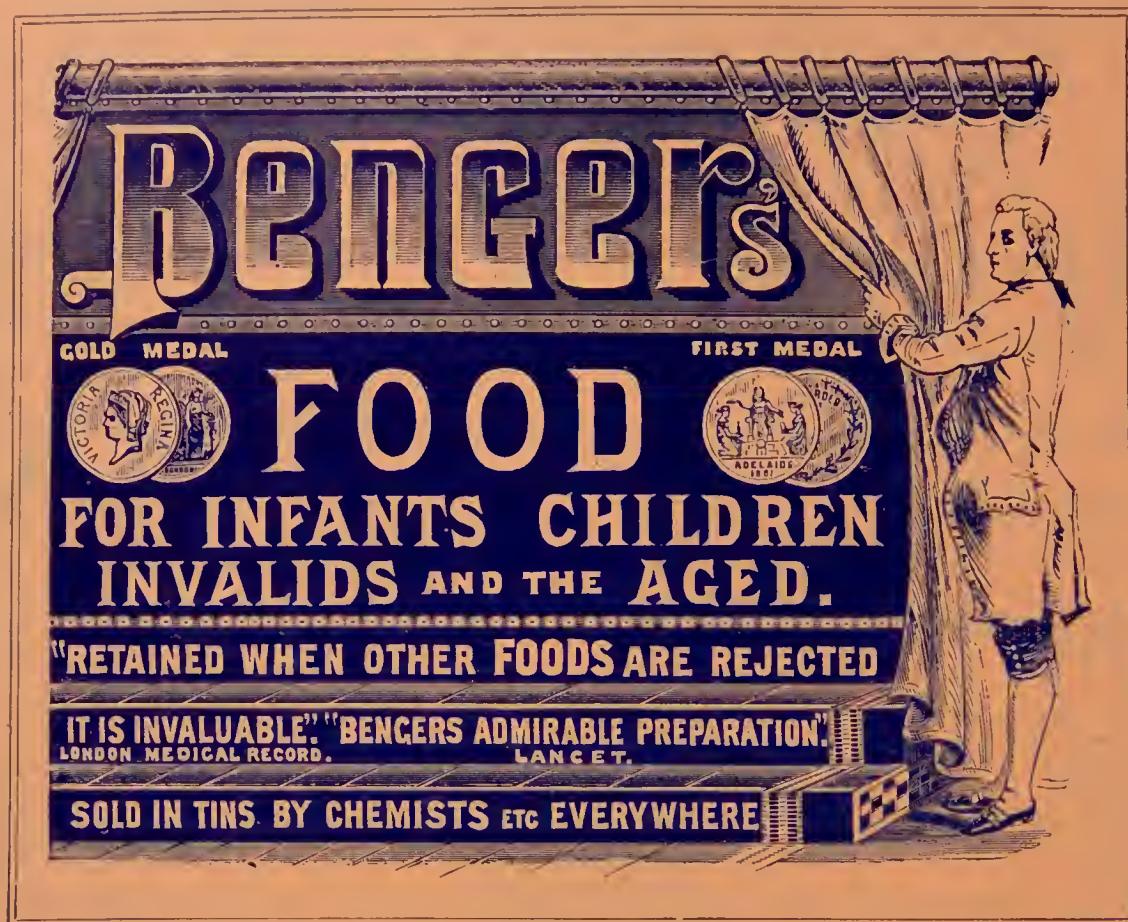
WHOLESALE ONLY FROM

**BRATBY & HINCHLIFFE, Ltd.,**

Manufacturing and Analytical Chemists,

SANDFORD STREET, ANCOATS, MANCHESTER.

ALSO AT 81, ROBERTSON STREET GLASGOW, AND 146, MINORIES LONDON, E.



BENGER'S FOOD is very extensively advertised at home and abroad. It has a large and increasing Sale wherever introduced.

"Lady Champion de Crespigny presents her compliments to Mr. Benger, and if the enclosed testimonial will be any use to him he is quite at liberty to publish it :—

"CHAMPION LODGE, MALDON, ESSEX, May 2nd, 1894.

"My youngest child was most delicate ; he was given up by two doctors, who said it would be impossible to rear him. Having tried every kind of milk, I was told of your Food, and used it with the utmost success. He is now a strong boy of five, and had no Food of any kind but yours for the first three years.

"G. CHAMPION DE CRESPIGNY."

"21, BEDFORD HILL, BALHAM.

"DEAR SIRS,—I thought I would like to tell you about my baby son. At nine months old, he was little more than a skeleton, and a doctor advised me to try 'Benger's Food,' which I did, and after little more than two months using it, he is one of the bonniest boys you ever saw, and as strong as a little lion. I should be pleased to let any of your representatives see him as a living testimonial of the grand results of feeding him with Benger's Food. I advise everyone I can to use it for their babies. I am so delighted I cannot sing its praises enough.

"Yours truly,

"C. E. PEARCE."

# FREDERICK STEARNS & CO.,

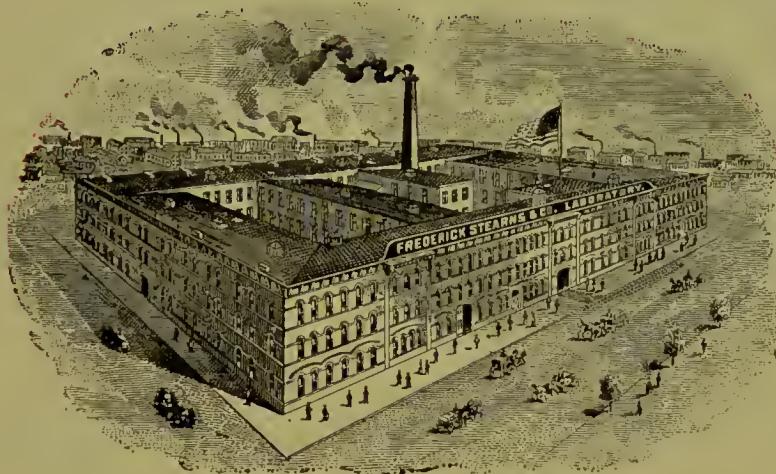
**Established 1855—39 Years. The Oldest and Largest Laboratory of its kind in the world.**

**MANUFACTURING PHARMACISTS,**

**NEW YORK, 1 B Platt St.  
WINDSOR, ONT.**

**DETROIT, MICH., U. S. A.**

**LONDON, ENGLAND.  
25 Lime St.**



We OFFER to the trade full lines of the following Standard Pharmaceutical Products of our own manufacture, as well as many specialties not classified under any of the general heads, but fully described in our PRICE LISTS and CATALOGUES, any of which will be mailed, post-paid, on application.

**Assayed Fluid Extracts.**

**Pills and Granules.**

**Elixirs.** Wines, Tinctures, Ointments, Cerates.

**Powdered Drugs.**

**Concentrations.** (Resinolds.)

**Digestive Ferments.**

**Solid Extracts.**

**Sugar and Gelatine Coated.**

**Capsules.** Soft Elastic Filled and Hard Filled.

**Syrups.**

**Concentrated Liquors.**

**Lozenges, Etc.**

**Effervescent Granular Preparations.**

**Compressed Tablets and Pills.**

**Cascara Sagrada.** In form of Fluid and Solid Extracts, Cordials, Pills, Granules, Capsules, etc.

**Soda Water Requisites.** Fruit Juices, Flavoring Extracts.

**Perfumes.** Handkerchief Extracts, Toilet Waters, Sachet Powders, etc.

**National Formulary Preparations, Etc.**

## SPECIALTIES:

**STEARNS' WINE OF COD LIVER OIL, WITH PEPTONATE OF IRON.** An entirely new and original preparation of Cod Liver Oil, as represented by its alkaloids and active principles. : : :

**STEARNS' CASCARA AROMATIC. (THE ORIGINAL.)** A fluid extract of prime and selected two-year-old Bark, which is sweet in taste instead of bitter, and does not gripe. : : : :

**DIKE'S PEPSIN,** A reliable, soluble, odourless, sweet, (1-3000 U. S. PH., 1890). beautiful, non-hygroscopic pepsin in scales, which is reasonable in price, and of full strength of the U. S. Ph. : : : : : : :

**HEMOFERRUM,** A true BLOOD IRON, aseptically prepared from fresh bullock's blood. It possesses Blood Iron. all the desirable medicinal and therapeutic properties of iron, without any of its objectionable features. Put up in flasks (100 pills each) : : : :

**STEARNS' KOLA CORDIAL.** It contains the stimulating properties of tea and coffee, with the nourishing features of cacao, besides possessing a principle peculiar to the kola nut, whereby fatigue of both mind and body are relieved without creating a habit such as follows the use of coca and its salts. : : : :

Correspondence Invited. Samples, Literature, etc., Free on Application to

**THOS. CHRISTY & CO, Sole Agents for Great Britain.**

**25, LIME STREET, LONDON, E. C.**

**W. A. RICHARDSON, RESIDENT REPRESENTATIVE. 25 LIME STREET, LONDON.**

# Stearns' Assayed Fluid Extracts.

## FLUID EXTRACTS MAY BE

briefly defined as fluid preparations of drugs so prepared as to represent the drug in the proportion of fluid part for solid part taken. To secure this result it is obvious that (1st) correct methods of exhaustion must be employed; (2d) proper menstruums must be used, and (3d) skilled labor employed to conduct the process from beginning to end. As a general thing we believe that most manufacturers who have complied with the above requisites, feel that they have done their duty, and that their products ought to be satisfactory.

## NOW, WE DO ALL THE ABOVE, AND STILL MORE.

We purchase only the highest grade of drugs from selected samples, from first hands only, and in such large quantities as to warrant them being "standard" and uniform in character. Moreover, our finished preparations are always *assayed*, thus insuring the fluid extract to be a true equivalent therapeutically of the prime drug itself.

## IF THERE BE CARELESSNESS OR INDIFFERENCE,

etc., in the selection of drugs, such as buying through brokers at the cheapest prices offered, no matter how carefully the three important requisites in the manufacture, noticed above, are complied with, poor fluid extracts must result; but we buy nothing through the brokers, having our own buyers in New York and London, and are enabled to secure the pick of these markets. On the other hand, if the best drugs are purchased, even at the highest prices, and the above three important requisites in their manufacture are not observed, a poor and unreliable product will result; therefore our claim for making the best and most perfect fluid extracts are: 1st, the selecting and purchasing of the best drugs only by our own buyers, from first hands; 2d, a correct method of exhaustion, namely, repercolation and expression, and by avoiding use of heat, so that the valuable and volatile constituents of many drugs are retained; 3d, proper menstruums of unvarying quality are used throughout the operation, so that the tendency to precipitation is avoided; 4th, the finished preparation is *always assayed*, thus assuring an adopted high standard, and furnishing a check on the operations of the laboratory and making errors impossible. Thus, our fluid extract of Coca is adjusted to a standard of 0.5 per cent of Cocaine, whereas, we have found fluid extracts of this drug on the market to contain as little as 0.1 percent of the alkaloid; hence, one pound of our make is worth five pounds of the lower strength product, or inversely, if the 0.1 per cent article is worth a certain figure, ours is worth five times as much. The same point might be justly made in regard to fluid extract Aconite, Belladonna, Hydrastis, Ipecac, Nux Vomica, and others too numerous to mention here.

## IN SHORT, STEARNS' ASSAYED FLUID EXTRACTS

are perfect ones, and strictly represent the drug, fluid part for solid part, and are the true equivalents, therapeutically, of the drugs they are made from.

## A SPECIAL FEATURE OF INTEREST AND VALUE

is the back descriptive labels on our packages, which furnish instructions for the extemporaneous preparation of Syrups, Tinctures, Wines, Infusions, etc., thus obviating all need of special formula books. The front label has a broad gold border to simulate the shop furniture labels, and is elegant and attractive.

## PRICES GIVEN ARE NET PER POUND,

including bottles. Customers will note that the prices in most instances are more reasonable than those of other reliable manufacturers, especially so when it is considered that ours are always assayed, hence, always of the highest possible standard. Fluid extracts are furnished in bulk, in 5 pound bottles and 1 gallon jugs (28 fl. oz.), at 5d per pound less than list, which in some instances, especially the lower priced articles, makes a saving to the purchasers of from 10 to 20 per cent. This is worthy of note to careful buyers. In larger quantities—5 to 40 gallons—special quotations on request.

### FL. EXT. ACONITE ROOT.

Standardized to 0.75 per cent, alkaloid estimated as aconitine. This fluid is also made to conform to the physiological test of Dr. Squibb.

### FL. EXT. ARNICA FLOWERS.

Standardized to 10½ per cent extractive.

### FL. EXT. OF ARNICA ROOT.

Standardized at 12½ per cent extractive.

### FL. EXT. BELLADONNA LEAVES.

Adjusted to a standard of 0.40 per cent Atropine.

### FL. EXT. BELLADONNA ROOT.

Adjusted to a standard of 0.50 per cent Atropine.

### FL. EXT. BERBERIS AQUIFOLIUM.

Adjusted to a standard of 4½ per cent, alkaloid Berberine.

### FL. EXT. BLACKBERRY.

Standardized at 23 per cent extractive.

### FL. EXT. BLACK HAW.

Standardized at 18 per cent extractive.

### FL. EXT. BLACK COHOSH.

Standardized at 15 per cent extractive.

### FL. EXT. BUCHU

Standardized at 17 per cent extractive.

### FL. EXT. CANNABIS INDICA.

Standard is based on chloroform soluble solids, viz., the resinous constituents only, of which our fluid contains 10 per cent.

### FL. EXT. CASCARA SAGRADA

Standardized at 25 per cent extractive.

### FL. EXT. CINCHONA CALISAYA.

Adjusted to a standard of 2 per cent of ether soluble alkaloid representing Quinine.

### FL. EXT. CINCHONA RUBRA.

Adjusted to a standard of 3.75 per cent total alkaloid.

### FL. EXT. COCA LEAVES.

Adjusted to a standard of 0.50 per cent Cocaine.

### FL. EXT. COLCHICUM ROOT.

Contains 0.50 per cent of alkaloid.

### FL. EXT. COLCHICUM SEED.

Staudard is 0.70 per cent of alkaloid.

### FL. EXT. CONIUM SEED.

An alkaloid standard is adopted at 0.50 per cent.

### FL. EXT. COLUMBO.

Standardized at 6½ per cent extractive.

### FL. EXT. DAMIANA.

Standardized at 12 per cent extractive.

### FL. EXT. DANDELION.

Standardized at 25 per cent extractive.

### FL. EXT. DIGITALIS.

Standardized at 20 per cent extractive.

### FL. EXT. ERGOT

Our standard is 17 per cent of dry extract, coupled with careful purchase of the best Spanish Ergot.

### FL. EXT. GELSEMIUM.

The fluid contains 0.3 per cent of alkaloid, estimated as Gelsemine.

### FL. EXT. GENTIAN.

Standardized at 35 per cent extractive.

### FL. EXT. GRINDELIA ROBUSTA

Standardized at 15 per cent extractive.

### FL. EXT. GUARANA..

Our standard is 4 per cent of alkaloid Caffeine.

### FL. EXT. HENBANE.

Adjusted to a standard of 0.18 per cent alkaloid.

### FL. EXT. HYDRASTIS.

Our standard is based on precipitation of the alkaloids with N 20 Mayer's reagent: 2½ c.c. requires 8 c.c. of the reagent for complete precipitation.

### FL. EXT. IPECAC.

We adopt 1.7 per cent alkaloid as our standard.

### FL. EXT. JABORANDI.

Our standard is 0.80 per cent alkaloid, estimated as Pitocarpine.

### FL. EXT. JALAP.

12 per cent of resin standard for our fluid extract.

### FL. EXT. LICORICE.

Standardized at 18 per cent extractive.

### FL. EXT. NUX VOMICA.

We take 1.5 per cent total alkaloids as our standard.

### FL. OPIUM (4 STRENGTHS) FOR TINCT.

Though properly not belonging among fluid extracts, we have adopted a standard of 24 grs. Morphia to the oz.

### FL. EXT. PODOPHYLLUM

Standardized to 4 per cent of resin.

### FL. EXT. PINK ROOT.

Standardized at 18 per cent extractive.

### FL. EXT. RHUBARB

Standardized at 30 per cent extractive.

### FL. EXT. SANGUINARIA.

Standardized to 3.75 per cent alkaloid.

### FL. EXT. SARSAPARILLA.

Standardized at 12 per cent extractive.

### FL. EXT. SENEKA.

Standardized at 25 per cent extractive.

### FL. EXT. SENNA.

Standardized at 20 per cent extractive.

### FL. EXT. SERPENTARIA.

Standardized to 10 per cent extractive.

### FL. EXT. SQUILLS.

Standardized to 45 per cent extractive.

### FL. EXT. STRAMONIUM LEAVES.

The standard adopted is 0.35 per cent of alkaloid.

### FL. EXT. STRAMONIUM SEED.

Standardized at 0.35 per cent of total alkaloids.

### FL. EXT. VALERIAN.

Standardized at 18 per cent extractive.

### FL. EXT. VERATRUM VIRIDE.

Our standard is alkaloidal; 10 c.c. of Mayer's N 20 reagent for the complete precipitation of its contained organic bases.

### FL. EXT. YELLOW DOCK.

Standardized to 18 per cent extractive.

## FREDERICK STEARNS & CO.,

Manufacturing Pharmacists, DETROIT, MICH., U. S. A.

THOMAS CHRISTY & CO., Sole Agents for Great Britain, 25 Lime St., London, E. C.

LONDON, ENGLAND.  
WINDSOR, ONT.  
NEW YORK CITY.

# MEDICINAL ELIXIRS.

## THE DEMAND FOR MEDICINES

to the eye and palate has led to the rapid growth of pharmaceutical art called "Elegant Pharmacy." The Elixir line is prominent among these products. Years ago we began their manufacture, and were in fact one of the first houses to do so, and have originated many of those now most used. In the Elixir form many bitter and nauseous remedies may be in a measure masked. At the same time it must not be forgotten that there is a limit to the possibilities in this direction, and that there is no disguise like omitting the ingredients.

## WE MANUFACTURE OVER 130

separate combinations, all of which are true to the formula, something which cannot be always said of this class of products. All we claim for our elixirs in addition to the preceding is that we possess a fair amount of skill and experience in this department of pharmacy, that our Elixirs as a class are unsurpassed either for palatability or standing qualities, though we do not claim to do the impossible.

## PEPSIN IN HYDRO-ALCOHOLIC SOLUTIONS

always deteriorates; Buchu and like oily drugs cannot be exhibited to advantage in dilute alcoholic menstrua, and Bismuth as a soluble citrate can lay no claim to the remedial effects of the insoluble salts. In so far as these combinations can be exhibited in elixir form we are able to present them, but no further claims than this can be made.

## OF MANY OF THE COMBINATIONS,

however, it may be truthfully said that they afford a ready means of positive medication, the medicines used therein generally being alkaloids and chemical salts of definite strength rather than vegetable matters of varying strength. In Pepsin combinations we always employ our soluble Dike's Pepsin, the excellence of which is conceded. And in Elixirs containing drugs of determinable strength, assayed drugs and fluids are always employed.

## OUR PHARMACEUTICAL PRICE LIST

contains a full list of Elixirs.



## OINTMENTS, Including Cerates.

### OUR OINTMENTS AND CERATES

are official in strength, but are mostly made with Saxoline (our name for the natural Petroleum jelly now official as Petrolatum, U. S., '80) as a base or vehicle instead of lard or suet. It forms an excellent basis for Ointments, because it never becomes rancid. Our Ointment of Zinc Oxide and other ointments of metallic salts, as Mercury Ammoniated, etc., are made in improved manner by machinery, which permits of a grinding in oil so that the resulting product is beautifully smooth and homogeneous, absolutely free from lumps and grittiness of any kind.

**OUR OINTMENTS ARE PUT UP** in air-tight (new style) glass jars, price including jar. It forms an elegant shop shelf jar, and when empty may be used for other purposes.

**OUR PHARMACEUTICAL PRICE LIST** contains a full list of ointments.

## PURE POWDERED DRUGS

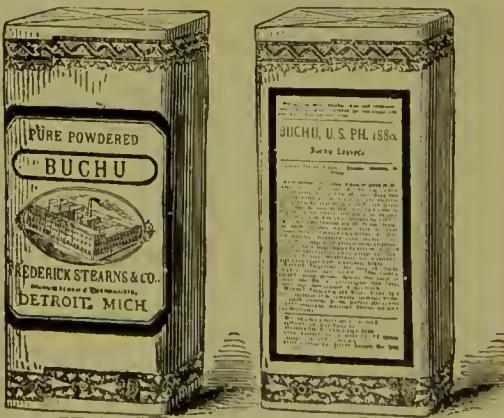
### THE POWDERS ARE PUT UP IN POUNDS

elegant shaped shelf canisters, air tight, covered with handsome tinted wrapper, with label in gold, white and black, similar to a shop furniture label, with also a back label in crimson, white and black, upon which is given the description, properties, dose and uses of the drug, with formulæ.

**WHEN DRUGS ARE** in a powdered or ground condition it is almost impossible for the retailer to judge of their quality, as poor drugs, by means of mixing and manipulating, may be made to produce very handsome looking powder, while the best drug in the world by poor treatment in the way of drying and powdering may have its medicinal properties destroyed and a poor looking powder be the result.

**FEW HAVE ANY IDEA** of the great importance attached to the skillful powdering of drugs, and often wonder why our prices for pure powders are higher than they are accustomed to pay their jobbers. The reason is simply that good drugs cost more than poor ones, and all drugs lose in weight from 10 to 20 per cent in drying out and powdering. As a general thing when a drug is too poor for selling in its original state it is sent to the drug miller to be powdered, as in this condition its identity is lost. Thus wormy roots, run-together gums, mouldy berries or flowers may produce powders pure, as far as absence of adulteration goes, but still powders absolutely unfit for medicinal use.

**PURITY.** We warrant our powders to be from prime drugs, powdered by ourselves with greatest care by steam power in mills of most modern design. Put up as they are in tins when dry and freshly powdered and sealed, they must reach the customer in good condition. We guarantee every article free from adulteration, manipulation or colouring. In short, to be prime powders from prime drugs.



**FREDERICK STEARNS & CO.,**

Manufacturing Pharmacists,

**DETROIT, MICH., U. S. A.**

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WINDSOR, ONT.  
NEW YORK CITY.

THOMAS CHRISTY & CO., Sole Agents for Great Britain, 25, LIME STREET, LONDON, E. C.

# HÆMOFERRUM (Blood Iron)

**HÆMOFERRUM (STEARNS') IS TRUE BLOOD IRON,** aseptically prepared from fresh bullock's

blood. It is a natural proteid compound and possesses the following important and valuable physical and medicinal properties:

Ready Solubility, Palatability, Agreeableness of Odour, Permanency, Neutral Reaction, Easily and Readily Assimilated, Non-Styptic, Non-Irritating, Non-Constipating, Blood-like Color of Aqueous Solution.

**IT FURTHERMORE**

represents the two-fold therapeutic value of supplying the blood with Iron, and at the same time providing the lungs and general system with oxygen. In short, it possesses all the desirable medicinal and therapeutic properties of Iron without any of the objectionable features heretofore attending the use of other forms of Iron; therefore we believe it has no equal as an Iron preparation. Samples, literature and further particulars free on application. Put up in flasks (100 pills each).

**HÆMOFERRUM (STEARNS')**

is not only a valuable and essential Iron tonic, but a highly nitrogenized food; therefore its use can be continued for such length of time as will assure a complete return of health and full restoration of vital power.



## STEARNS' • KOLA • CORDIAL.

**IS A MOST PALATABLE PREPARATION**

manufactured with a view to providing a nerve tonic unexcelled by any now on the market. It contains the stimulating properties of tea and coffee with the nourishing features of cacao, besides possessing a principle peculiar to the kola nut, whereby fatigue of both mind and body are relieved, without creating a habit such as follows the use of coca and its salts. A further property of kola is the inhibitive action it exercises in alcoholism, creating a disgust for fermented and distilled liquors.

**STEARNS' KOLA CORDIAL** is an entirely original preparation, and contains all the valuable medicinal properties of the drug, without any of its objectionable features, such as its acrid bitterness. It is one-fourth the fluid extract strength, and is Kola, pure and simple, in the form of a delicious cordial. It is not a compound of any sort, and therefore, does not depend on any other drug for its therapeutic value. Furthermore, it contains 120 grains of Kola to the fluidounce, and is made by a method original with us, the result of long experiments, and we believe will fill a long-felt want, where a tonic stimulant is desired.

## DIKE'S PEPSIN, U. S. Ph., 1890, 1 to 3000.

**SINCE THE NEW PHARMACOPEIA** established the standard of "Pepsin" to be 1 to 3000, Dike's has been prepared in strict conformity to that standard.

**DIKE'S PEPSIN** (the only Pepsin entirely free from mucous) is no slaughter house product, except that the fresh stomachs are supplied from such source. By an original method unknown to and unused by others, the mucous is removed entirely from the peptic solution of Dike's at the beginning of the process of manufacture, so that as the crude solution contains no mucous, the finished product cannot.

**IN ADDITION TO BEING THE ONLY PEPSIN** free from mucous, Dike's Pepsin is absolutely the only non-hygroscopic soluble Pepsin in scales that is made. This valuable property (non-hygroscopicity) should not be undervalued. It proves that Dike's is not a peptone Pepsin, therefore will not "gum up" as the rest of soluble Pepsins do, and may be dispensed in powder form, or combined with other powdered drugs without fear of its becoming sticky or "balling up."

**THE ODOUR OF DIKE'S PEPSIN IS SWEET,** and it is free from any suggestion of animal; its taste is pleasant; its appearance—large, fluffy, silver scales—is most beautiful. To recapitulate: If a reliable, odourless, sweet, beautiful non hygroscopic Pepsin in scales, which is reasonable in price, of full strength of the U. S. Ph., is wanted, Dike's will fill the bill, and is the only pure Pepsin that will meet all these requirements.

**IF UNACQUAINTED WITH IT** send for a sample. We will sample your physicians with it on receipt of their names and addresses. All jobbers have it in stock.



## Hard and Soft-Filled Capsules.

**THERE IS NO WAY OF ADMINISTERING NAUSEOUS** medicines, such as copaiba, sandal wood oil and others, that can be compared with the form of filled capsules. They are easily swallowed, and the medicines, on account of the free solubility of the gelatine, are readily assimilated. In pricing these it is not our intention to compete with low grades of goods which may be offered at cheaper prices than ours. We guarantee that our Capsules contain just what we state they do, and that the medicine is of the very best quality. The sandal wood oil is of the very best grade of the East Indian, and both the oil and the oleo-resin of cubeb are guaranteed to be strictly pure.

**FREDERICK STEARNS & CO.,**

Manufacturing Pharmacists, DETROIT, MICH., U. S. A.

LONDON, ENGLAND.  
WINDSOR, ONT.  
NEW YORK CITY.

THOS. CHRISTY & CO., SOLE AGENTS FOR GREAT BRITAIN, 25 LIME STREET, LONDON, E. C.

# SUGAR AND GELATINE-COATED PILLS AND GRANULES

**OUR PILLS ARE MADE** from the purest materials, by the most improved processes and coated with pure sugar or gelatine only, with the aid of little or no heat. We have the only *complete* plant of Colton pill machinery in the world, which enables us to turn out over a half million pills per day. In addition to the greater facilities which this machinery affords, it also does the work in a far more satisfactory manner as regards exactness of division and superiority of finish than it is possible to do by hand. No resinous gums or varnishes are used in the process of

coating, therefore, they present ready solubility, in which respect they are unsurpassed by any pills made. In the careful manipulation of the mass and the absolutely perfect division of the same, as well as uniformity of shape and superiority of finish, we know our pills to be unexcelled.

**FRIABILITY** is no fair criterion to judge solubility by, as our pills are coated while the mass is reasonably soft and will flatten under pressure of the fingers rather than disintegrate, and are always readily soluble in the digestive juices of the stomach.

**REDUCTION IN PRICES.**—Our pills are made by improved processes at a great saving of labor and expense, and we are consequently able to offer them at very reasonable prices, much more so than formerly. We have entirely discarded the old and conventional manner of pricing pills in lots of 500 at a saving to the buyer of from only 5d to 8d for the lot less than the straight hundred price would be, which amounted generally to only 1d a hundred, or from 3 to 10 per cent. less than the single hundred price, according to the ex-

pensiveness of the pill. We offer all our pills in **bottles of 500**, at a discount of **20 per cent off the 100 price, or in 1,000 lots at 20 and 10 per cent off the 100 price.** This is a saving to buyers of from 10 to 30 per cent, according to quantity, over our old prices and the *present prices* of other manufacturers, which fact should be considered and taken advantage of by careful buyers. Please note that Gelatine Coated Pills are now listed the same as those Sugar Coated.



**PILLS FROM PRIVATE FORMULA.** We solicit contracts from all using pills of private formula. We can furnish material, mass, pill and coat batches of pills at prices much cheaper than the same can be done in a smaller way. Coated pills of private formula cannot, however, be furnished in lots of less than 3,500, as the labor of making a smaller quantity than this would cost about as much. Estimates will be given on application without charge, such communications being strictly confidential. Our Pharmaceutical Price List contains full lists of Pills and Granules.

## DOSIMETRIC : GRANULES.

**ALKALOIDAL MEDICATION.** We offer to the trade a full list of Alkaloidal Granules. In description we desire to say that in their manufacture we use only the best and purest medicines obtainable in the market and in most instances use chemicals imported direct from the highest and best European laboratories. Preference is also given to crystallized preparations, when they can be had, over amorphous or powdered drugs, thus insuring greater security in their use. We desire to state that these articles do not belong to the class of concentrations or resinoids at present in vogue which have similar names, but which are not definite compounds but mixtures of an indeterminate composition. They thus differ radically from our active agents, which are definite chemical compounds and are the true active principles of plants. The utmost care is used in their manufacture, and our experience in pharmacy justifies our claim that as pharmaceuticals they are unsurpassed. They are not like the ordinary sugar coated and tinted pills and granules, but are made after the French system of preparation and are in size very minute and most exactly prepared. We were the original American exponents of Dosimetry. For further information refer to our Pharmaceutical Price List.

## Effervescent Granular Preparations.

**THE FORM OF EFFERVESCENT GRANULES** is a pleasing one for the administration of Saline Aperients, Bitter Sennas, Purgatives, Tonics, etc., or such metallic salts as are found in mineral springs or for exhibiting those remedies which are aided by the sedative action of carbonic acid on the refrigerant action of vegetable acids. Further, it is a matter of experience that, in the form of effervescent liquors, medicinal agents are more rapidly and perfectly absorbed than in any other way, and small amounts of iron, for instance, exhibited in this manner give better results in anaemic conditions than much larger amounts given in the usual forms employed. We particularly call attention to our Eff. Granules of the Mineral Water Salts, which is an economical, pleasant and attractive form for household use. They are so prepared as to represent the natural waters and possess their medicinal properties, and are prepared for drinking by adding them to water. They are self-charged with carbonic acid, as most of the natural waters are. Send for complete circular on Effervescent Granular Preparations as well as our Pharmaceutical Price List.



**FREDERICK STEARNS & CO.,**

Manufacturing Pharmacists, DETROIT, MICH., U. S. A.

THOS. CHRISTY & CO., Sole Agents for Great Britain, 25 Lime St., LONDON, E. C.

# STEARNS' FINE PERFUMES.

## New Styles in Bottled Goods.

**W**E TRULY BELIEVE no line of odours made in America has become more popular than ours has, and no department of our business has increased more rapidly than that of Perfumery. We know this increase is due entirely to the fact that, while our prices may be higher than some others, our quality is always of one standard—the best and that only.



STYLE "A"—Special French Oval.

## REGULAR ODOURS

White Rose,  
Stephanotis,  
Opopanax,  
Rose Geranium,

Heliotrope,  
Lily of the Valley,  
Frangipanni,  
New Mown Hay,

Ylang Ylang,  
Patchouly,  
Jockey Club,  
True English Violet, 21-  
Wood Violet,  
White Lilac,  
Tonquin Musk, 21-  
Musk,  
Ess. Bouquet.

In addition to our  
Special Odours—

Stearns' "4" Roses,  
Amorita,  
English Lilac,  
Cleopatra,  
Olive Blossom,  
Nadjy,  
Ideal Bouquet,  
American Rose,  
May Blossom,  
Euxenia,  
Kalanthe,  
Lnenilia, 1  
Ermine,

we also offer the fol-  
lowing list of popular  
favorites, which are  
everywhere recog-  
nized as the best in  
their line:



STYLE "F"—Tall Square Cut Lapidary Stopper.



STYLE "G"—Flat Octagon, with Acorn Cut Stopper.

ALL PERFUMES in bulk are 14·9 per pound.

WITH EACH ORDER for six pounds (87 6) we will send Test Rack filled, an elegantly embossed sign, and a supply of labels.

FINE PERFUMES must possess three distinguishing characteristics. First: Fragrance in abundance without being fiod. Second: Delicacy with sweetness and freedom from sharpness. Third: Permanency and lasting qualities.

OUR ODOURS POSSESS ALL of the above good points, and are extremely fragrant, deliciously sweet and remain so.

IT PAYS TO PUSH the best goods in the perfume line, as a trade well established by selling the finest odours only is the trade which will be permanent and entirely satisfactory to the retailer and the customer. Fine goods can only be produced by liberally using the finest material, aided by skilled labor. We import all the french flower pomades used by us direct from Grasse, also the finest and most expensive essential oils, and we can thus guarantee the quality of the ingredients to be the best. Our bouquets are made from formulae of established superiority, and are well aged before sending out, therefore producing that softness of quality and blending together property so much admired.

Send for New  
Illustrated  
Price List.



STYLE "C"—English Round.

NEW YORK CITY,  
1 b Platt St.

DETROIT, MICH., U. S. A.

LONDON, ENGLAND.  
WINDSOR, ONT.

THOMAS CHRISTY & CO., Sole Agents for Great Britain, 25, LIME STREET, LONDON, E. C.

**FREDERICK STEARNS & CO.,**

# Stearns' Wine of Cod Liver Oil

WITH PEPTONATE OF IRON

Is an Entirely New and Original Preparation, Containing 25 Per Cent of Pure Cod Liver Oil, as Represented by Its Alkaloids and Active Medicinal Constituents.



**MODERN INVESTIGATION HAS PROVEN** that the value of Cod Liver Oil as a medicinal agent is not due simply to the fact of its being an oil, but to the valuable active principles which it contains.

**EACH FLUIDOUNCE OF THE WINE** contains four grains of PEPTONATE OF IRON, a most readily assimilated and valuable form of Iron, it being partially predigested and free from styptic properties.

**THIS PREPARATION DOES NOT** cause eructations or nausea, as does the oil, but is pleasant to take and thoroughly active. The dose may be increased somewhat with its use, if thought desirable.

**THE WINE NOTABLY INCREASES** the strength of the patient, as increased weight is evidence of returning health. It is valuable in nervous affections of children acting especially on nerve centers, thus not only assisting but preventing nervous disorders.

**STEARNS' WINE HAS A DELICIOUS TASTE**, and is acceptable to the stomach of the most delicate invalid. It is rich, ruby red in color, and free from all odour and taste of the plain oil.

**IT MIGHT FURTHER BE STATED** that Stearns' Wine was not offered to the medical profession until it had been placed for a length of time in the hands of the leading practitioners of Detroit, as well as in the hospitals, and it was demonstrated beyond a doubt by actual clinical tests that it possessed great merit and was worthy of the fullest confidence of the medical profession.

**INASMUCH AS WE (F. STEARNS & CO.)** were the originators of this preparation which combines the active principles of Cod Liver Oil with Peptonate of Iron in Wine, it is respectfully requested that STEARNS' he always specified when Wine of Cod Liver Oil is ordered or prescribed, thereby insuring the original and the genuine, the one with which all the clinical studies were made.

Stearns' Wine of Cod Liver Oil, or Vini Olei Morrhua (Stearns').

**STEARNS' WINE MAY BE USED** in all cases where Cod Liver Oil and Iron are indicated, and furthermore it is devoid of all the objectionable features hitherto attending the administration of Cod Liver Oil in any form.

**STEARNS' WINE RECEIVED A SPECIAL AWARD** for excellence at the World's Columbian Exposition.

**IN FULL 16-OUNCE BOTTLES.** For sale by all the leading jobbing houses or direct from us.

## Stearns' Cascara Aromatic THE Original.

"IMITATION IS THE SINCEREST FORM OF FLATTERY" and the number of imitators an article may have is one of the best proofs of its excellence, as poor and unsuccessful things are never imitated. After a long period of experimental work, we placed upon the market in 1889 (over four years ago) the first palatable fluid extract of Cascara Sagrada ever devised. This was prepared by a special process, original with us, by which the bitter principle was eliminated from the product without injuring its therapeutic value whatsoever. Furthermore, by making use of two-year-old bark only, our Fluid Extract was possessed none of the griping properties that the ordinary bitter Fluid Extract did. This preparation was called **STEARNS' CASCARA AROMATIC**, which title was first used by us, there being no other preparation of Cascara on the market under that name. Other houses, as well as ourselves, had offered Cordials, Elixirs and Syrups of Cascara, which, however, did not fill the bill, all being dilute preparations, the largeness of dose being objectionable, to say nothing of the excess of alcohol that cordials and elixirs contain, and the cloying sweetness of syrups, which derange the stomach. Stearns' Cascara Aromatic filled a long-felt want for a concentrated liquid preparation of Cascara of full strength, each minim representing one grain of prime two-year-old bark.

**OUR COMPETITORS** until recently remained satisfied to offer their different Fluid Extracts of Cascara titled variously Modified, Palatable, Tasteless, Bitterless, Formulae of Different Years, etc., etc., all of which were claimed to be free from excessive bitterness, yet all were about as bitter as ever, and it was not until Stearns' Cascara Aromatic had solved the problem and filled the want, that competitors ever thought of making use of the title adopted by us. Now we find numerous so-called Aromatic Cascaras on the market, all of which hope to reap some of the benefit of the demand which Stearns' Cascara Aromatic created by the excellence of the preparation and the thoroughness with which we have introduced it to the physicians, and the large expenditures which we have made in advertising it through the journals.

**TO CONCLUDE:** Had not Stearns' Cascara Aromatic been successful there would have been

no reason for other Cascara Aromatics, and this important drug would not have been so widely used as it is today. It was owing to our discovery of an original method of preparing it that Cascara is so popular with the medical profession as a tonic laxative, and we feel warranted in believing that all of those of the pharmaceutical profession, who are interested in true advancements of pharmacy, will appreciate our position and give credit to whom credit is due, by specifying invariably **STEARNS'** when Cascara Aromatic is ordered. Stearns' Cascara Aromatic is the only full strength Fluid Extract of Cascara Sagrada which is not bitter and which does not gripe.

**MAY BE ORDERED** of the leading wholesale houses, or direct from our agents.

## FREDERICK STEARNS & CO.

Manufacturing Pharmacists, DETROIT, MICH., U. S. A.

THOS. CHRISTY & CO., SOLE AGENTS FOR GREAT BRITAIN, 25 LIME STREET, LONDON, E. C.



# WORLD'S COLUMBIAN EXPOSITION AWARDS.

DETROIT, April 2nd, 1894.

We are pleased to reproduce a copy of the awards given us by the judges on our Exhibit at the World's Columbian Exposition, from which it will be noted that in number (15), we stand foremost among all competitors in our line of business. We would call particular attention to the fact that three of our original specialties, Stearns' Cascara Aromatic, and Stearns' Wine of Cod Liver Oil and Dike's Pepsin were honored by special mention.

Respectfully,

FREDERICK STEARNS &amp; CO.

**A**

## UNITED STATES

Department L---Liberal Arts.

1238

Exhibitor, - - - **FREDERICK STEARNS & COMPANY**, Address, Detroit, Mich.

Group, 148      Class, 834

Exhibit, - - - **PHARMACEUTICAL PREPARATIONS, PERFUMES AND TOILET ARTICLES.**

## AWARDS:

1. For the **extent and importance** of the exhibit, and **general skill** in their productions.
2. For the **solubility of the Tablets** intended for **hypodermatic medication**.
3. For the **improved process** in the manufacture of **Gelatine Coated Pills**, resulting in perfect protection from atmospheric influences, solubility and handsome display.
4. For carefully ground, well dried, and strictly **pure Powdered Drugs**.
5. For the **skill evidenced** in the sub-division of the ingredients, and in the preparation of **Ointments and Cerates**.
6. For **Gelatine Capsules** skillfully prepared, handsome in appearance, **readily soluble** and put up in good style.
7. For the **ready solubility** and digestive powers of **Dike's Pepsin**, its freedom from odour, and **non-hygroscopic character**.
8. For **Medicinal Syrups**, free from precipitation, discoloration, and oxidation.
9. For the effervescent quality of **Granular Effervescent Preparations**.
10. For the palatable, agreeable and efficient **Cascara Aromatic**.
11. For the conscientious care taken in the manufacture of **Non-Secret Preparations**, and the attractive manner in which they are put upon the market.
12. For an improved method for preparing **Wine of Cod Liver Oil** with Peptonate of Iron, whereby the **full medicinal effects** of the oil are retained, at the same time **getting rid of the taste** and fatty parts so that it is agreeable to the taste, and can be **readily taken** by the most delicate stomach.
13. For **Assayed Finid Extracts** of good condition, excellent appearance, freedom from precipitates and of **uniform strength**.
14. For the **delicacy** and **permanence** of odour in the **Perfumes**.
15. For the excellent quality of the **Toilet Articles**.

(Signed,) WILLIAM SIMPSON,  
Individual Judge.

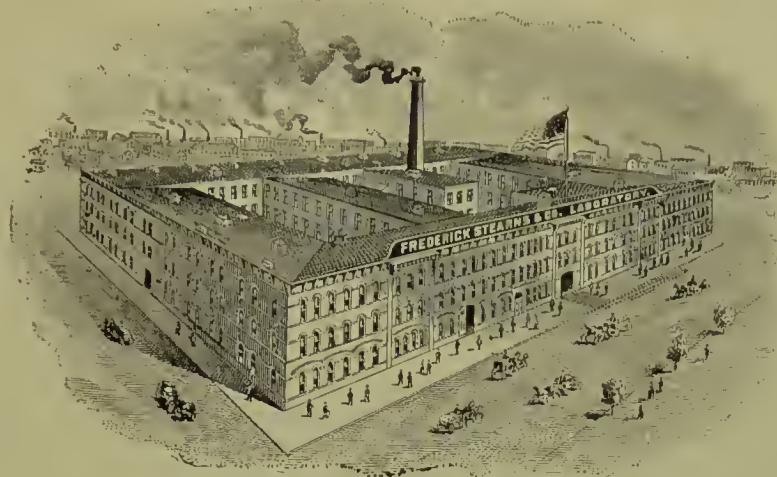
Approved, K. BUENZ.

President Departmental Committee.

**Approved, JOHN BOYD THACHER,**

Chairman Executive Committee on Awards.

Date, February 23, 1894.



## FREDERICK STEARNS & CO., DETROIT, MICH., U. S. A.

In considering the gradual development of our modern industrial system, it is a matter of considerable interest to speculate as to the period when the first perceptions of the economy of the distribution of labor began to dawn upon the mind of the human race. This thing that is now so plain to us—the superiority of one man and a machine over a large body of men—is something that has come to us by degrees, each year seeing an increase of the machine and a decrease in the expenditure of manual effort in the making of things. Instead of every man grinding his own flour and baking his own bread, ten men grind the flour for ten thousand, and another ten men can bake it. The same plan operates in the fabrication of our shoes, clothing and other necessities and conveniences of life, and there is no reason why it should not apply to the making of our pills.

Our last census gave us some astonishing figures upon the manufacture of drugs and chemicals in this country, these, of course, including much material used for technical purposes, but at the same time the consumption of those agents which, to borrow a term of our medical friends, are used to "assist nature" in curing us of our ills, is something enormous, and naturally gives rise to the question, what creates all this value and where does it all come from? With the general public the answer is quite easy—the material comes from the drug store, and the druggist receives the money for it. The apothecary could answer for himself by saying that certain things come from the Indies, the South Sea Islands, Timbuctoo, or the depths of the sea, as the case might be, but he would realize at the same time, as he looked at the thousand and one things of his varied stock, that there must be a great deal of unwritten history connected with them. The acacia might tell him a romantic tale of the caravan; his quinine might tell him wondrous stories of Java and its volcanoes, or of snow-capped Andes; his sarsaparilla might paint the glories of a tropical forest; and his cod liver oil could possibly relate some thrilling adventures of the modern Vikings or Norsemen.

His pharmaceuticals and finished products might continue the narrative, and, although the latter might lack that peculiar enchantment which distance gives, yet a glance at the influences which have shaped their course and finally guided them to his shelves could not fail to be of interest to him.

To obtain an idea of the great magnitude and diversity of the business of pharmaceutical manufacturing, with its economy of labor and elaboration of product, there is perhaps no better

place an entire square, with a frontage of 300 feet and a depth of 180 feet. As the building was constructed especially for the purpose for which it is used, its general arrangement is such as to afford the greatest convenience and economy in the storage, manufacture, handling and shipping of the various products manufactured. The building is three stories high, rectangular in shape, and encloses two open courts, which give convenient access for teams to all the different departments of the establishment. These courts



Part of the room devoted to labeling and finishing the Wine of Cod Liver Oil.

plan than to pay a visit to the establishment of Frederick Stearns & Co., situated at Detroit, Michigan, U. S. A. Here can be seen in operation, upon a large scale, all the many processes which in a great degree go to make up the science of pharmacy; and here all the varied forms of medication which the profession of medicine can demand are turned out. This establishment, of which an illustration is given above, is one of the largest of its kind in the world. It is situated on 21st street, in the western part of the city, and occu-

pies an arched entrance on the 21st street side, and it is through this that crude drug material from all parts of the earth enters the works, finally to emerge in the shape in which it appears upon the shelves of the druggist. It seems rather an anomalous condition in industrial affairs when we imagine what often occurs in the passage of drugs through this arched gateway. A load of Cascara Sagrada enters, and the wagon wheels touch those of another vehicle conveying a load of Cascara Aromatic just starting on its

journey to the Pacific Coast. The eucalyptus of Australia could, if it were animate, exchange greetings with a more polished and educated portion of its family on its way back to its original home. The newly arrived coca from

ing the goods. This product, which is now so deservedly popular with the medical profession, is a striking example of the readiness of the pharmacist to recognize the demand for improved methods of administering reme-



A section of the fire-proof vault where the Perfume materials are stored.

Bolivia might witness the departure of a consignment of some manufactured product bearing the same name on its return journey to Cochabamba. Thus it is that there is a constant passing of crude products, coming from the most remote portions of the world to experience the mutations which the knowledge of man and the skill of his machines can give them, and many of them emerge in their improved condition to be returned to the same people who originally furnished them.

To follow in detail the various manipulations which belong to the manufacture of medicinal preparations is an exceedingly interesting procedure, and where such are reduced to a perfect system, as in the case in the laboratory of Frederick Stearns & Co., the subject becomes all the more interesting. Commencing at the north building, or that portion of the works comprising the wing to the left in the illustration, there will be found upon the first or ground floor the department devoted to the manufacture of Stearns' (now well known) Wine of Cod Liver Oil. Two large rooms upon this floor are devoted to this product, one containing five large extracting machines, large tanks fitted up with power agitators, each with a capacity of 120 gallons, and a mixing tank with a capacity of 1,000 gallons, with an attachment of air force pumps, etc., and other appliances for conveying the finished material to a storage room upon the next floor above. The other room is devoted to finishing this preparation, and here can be seen in operation automatic bottling machines, capping machines and a force of thirty girls busily engaged in labeling, wrapping and box-

dies of known value, and to make use of the most skillful methods in supplying that demand. The therapeutic virtues of cod liver oil are too well known to admit of any discussion of its value, but there have always

that he rob the taking of cod liver oil of its greatest terror—its abominable taste—and many are the more or less futile schemes which have been employed to encompass this end. With the advance in knowledge of the properties of alkaloids, especially those of animal origin, and their therapeutic value, there began to dawn in the minds of advanced investigators an idea that those of cod liver oil could be isolated and administered in that form. The credit for this idea belongs to two eminent French chemists, Messrs. Gautier and Mourguet, who gave to the combined medicinal principles of the oil the name "Morrinol." The agent employed in the manufacture of Stearns' Wine of Cod Liver Oil is identical with this, being known as Stearns' Extract of Cod Liver Oil, which extract is twenty-five times stronger in active principles and alkaloids than the plain oil itself. This extract, in combination with wine and peptonate of iron, furnishes a means of administering these important medicinal agents in a manner most agreeable to the patient, and a wealth of clinical reports from leading practitioners of the country indicate that it has achieved an enviable position in the confidence of the medical profession.

Quite appropriately, the room adjoining this special department is devoted to another branch of manufacturing pharmacy which has had its growth from the demand for palatable medicines. Here are made the various elixirs, medicated wines, syrups, glyceroles, etc. Although the work of this department is such that its success



A corner of the Analytical Department.

been objections to its use, which became stronger as the pharmacist gradually showed that his skill was competent along other lines to make the rough way smooth in the matter of taking disagreeable medicines. There grew, therefore, an impatient demand

depends more upon the formulae and skill employed, yet the appliances and conveniences are of the best which ingenuity can suggest, and the popularity of the goods of this sort turned out is evidence of the care and skill employed in their manufacture. The

production of perfumes is referred to by the firm as one of their "side lines," but the many admirers of Stearns' Fine Perfumes will be loath to regard them in anything but the light of products of great importance, and a glance

atmospheric specialty, Cascara Aromatic, is also located upon this floor. This department has a capacity for turning out 1,024 pounds of this preparation per day, and the fact that the force is kept busy is quite satisfactory evidence

of the success of the firm's efforts. The profession, and as the process of manufacture is one which was originated by and is reserved by the firm, it is safe to say that the original Cascara Aromatic will retain the field it has won for itself. It is upon this floor that is found the storage of the Wine of Cod Liver Oil previously referred to. It is quite well understood that this preparation enjoys a large sale, but one is hardly prepared for the sight of four long rows of one hundred tanks, each containing one hundred and fifty gallons of the finished product. These tanks are always full, as fast as one is emptied it is immediately refilled, so that the stock on hand always aggregates at least 10,000 dozen, and the orders from the large jobbing trade are almost always for round five or ten-gross lots.

The third floor of the north building is devoted principally to storage purposes. From seventy-five to one hundred thousand pounds of cascara sagrada bark are always kept in stock, and the firm state that, so far as they are able to learn, they are the largest users of this bark in the world. Immense quantities of mandrake, sarsaparilla, etc., are also always in store, and on this floor is also found the large stock of glassware which an establishment of this magnitude is always obliged to have on hand. The value of this material always on hand ranges from \$25,000 to \$50,000. The eastern end of this floor is partitioned off so as to be practically isolated from the rest of the building, and is devoted to the manufacture of poison fly paper. It is provided with a cemented floor covered with absorbent material, upon



A sectional view showing part of the 100 storage tanks for Wine of Cod Liver Oil.

through the department which adjoins those already referred to will convince the observer that "specialty" would be the better designation. The perfume department embraces a mixing room, freezing room, filling room, finishing room and large fire-proof vaults for the storage of the costly materials, such as musk, ambergris, oil rose, etc., which enter into the manufacture of perfumes. The mixing room contains several large machines for washing pomades, copper agitators, and machines for mixing the perfumes. That the perfumes manufactured by this firm possess those characteristics which should distinguish a fine article, such as fragrance in abundance without disagreeable "loudness;" delicacy with sweetness, freedom from sharpness, with permanency and lasting qualities, is quite evident from the great demand which has arisen for them, and that there is a demand for them is further evidenced by the fact that their aggregate sales amount to over \$75,000 per annum.

Upon the second floor of the north building is found the Chemical Stock Department, and a dispensing or requisition department for the purpose of filling the requisitions of the different manufacturing departments for the various drugs and chemicals used in the establishment. Adjoining this is the Analytical Department, in charge of Prof. Charles C. Sherrard, whose duties consist in examining all the materials used in manufacturing, and assaying samples of each lot of fluid extracts manufactured before the goods are bottled and sent out from the establishment. The department for the manufacture of this firm's fa-

that Cascara Aromatic (Stearns') is in great demand. This particular preparation of cascara sagrada, in which none but two-year-old bark is employed, to obviate the griping qualities of the new bark, was first introduced by



A side view of a fifty-ton lot of Cascara Sagrada bark.

this firm in 1889, and such was its success that within two years after its advent the inevitable imitator came forward with his testimony that it was a good thing. But in spite of this the Stearns' preparation seems to be firmly established in the favor of the medical

profession, and as the process of manufacture is one which was originated by and is reserved by the firm, it is safe to say that the original Cascara Aromatic will retain the field it has won for itself. It is upon this floor that is found the storage of the Wine of Cod Liver Oil previously referred to. It is quite well understood that this preparation enjoys a large sale, but one is hardly prepared for the sight of four long rows of one hundred tanks, each containing one hundred and fifty gallons of the finished product. These tanks are always full, as fast as one is emptied it is immediately refilled, so that the stock on hand always aggregates at least 10,000 dozen, and the orders from the large jobbing trade are almost always for round five or ten-gross lots.

The first floor of the middle building

is devoted to that important branch of pharmacy—the manufacture of fluid extracts. It is divided into three rooms. The first contains immense screw presses with two hundred tons pressure for thoroughly exhausting

imated at \$6,000 per annum. The adjoining pill-massing room is fitted with a complete line of rollers, varying from 3 inches to 12 inches in diameter, and constructed of steel and porcelain, the latter being necessary for chemicals



Where the Fluid Extracts are pressed off.

the drugs, and large vats and tanks where drugs undergo the macerating process. The second room contains the stills, evaporating pans, kettles, etc., and one especially large still for recovering alcohol. The third room is devoted to the process of percolation, and presents an imposing array of copper and stoneware percolators of from five to fifty gallons capacity. In connection with this department are the podophyllin works, located in a separate building in the court. Here are several large percolators of 160 gallons each, also drying closets, straining frames, drying racks, etc., used in making this important resin. The second floor of the middle building is devoted entirely to the manufacture of pills. In the pill cutting department is found a plant which consists, so the firm states, of the only complete set of the Colton pill machines in America. This plant includes machinery for making the strips or pipes, as well as that for cutting them into pills. The pill mass is fed into a machine in small chunks about the size of one's thumb, which are carried by means of wide rubber bands running upon two cylinders, between the latter, and rolled into pipes of the required dimensions. These are collected in trays and fed a dozen at a time into the second machine, which cuts them. All that is necessary is to furnish the mass and the machines do the rest. A complete set of such machines, with the aid of five girls, easily does the work of 25 girls with the ordinary methods of pill-making by hand. The capacity of this plant has been proven to be a half million 3-grain pills per day, and the saving in labor through its use is esti-

which would be damaged or altered by contact with metals. The gelatine coating room is supplied with a complete set of apparatus, the process used having been patented by the superintendent of the department, Mr. Albyn D. Stearns. This apparatus does away

F. Stearns & Co. are noted for their beauty of finish, and were favored with a special award at the World's Fair. The sugar coating pill room is well equipped with ten large revolving copper pans, and turn out a product beautifully finished and very soluble. The back building, forming the eastern side of the courts, has a carpenter and repair shop upon the ground floor, in which are made all the tables, shelving, etc., used upon the premises, and the force of carpenters is kept busy doing the general repair work of the establishment, fixing packing boxes, etc. The drug milling department also occupies two floors of this building, the machinery upon the first floor being used for powdering. Chaser mills are used for this purpose, each consisting of two large mill stones set upon edge and revolving upon an enclosed circular bed of the same material. They are enclosed in tight wooden boxes or houses, and as the material becomes reduced to an impalpable powder, the greater part rises as dust and settles upon the space outside the enclosed stone bed and the walls of the houses. The second floor is equipped with machinery for grinding, and includes three disintegrators, turning at the rate of three thousand revolutions per minute, each having a grinding capacity of one ton per day of ordinary drugs. This department is also well supplied with root cutters, sifters, ball mills, grist mills, etc. The condition and poultry powder department is located immediately adjoining the milling department, the extent of the firm's business in this line being great enough to keep a large force employed in grinding, putting up, wrapping and



A corner of the Pill Making Department—The piping and cutting of pills by machinery.

with the use of needles, using instead hollow tubes from which the air is exhausted and the pills held in place by atmospheric pressure during the process of dipping in the gelatine solution. Twenty girls are employed in this department. The gelatine-coated pills of

packing this class of goods. One large room in this part of the building is devoted to the manufacture of compressed lozenges, tablets, tablet triturates, etc., four large power machines being employed on this class of work. The department for the manufacture of Effer-

vescent Granular preparations is well fitted with complete apparatus in the shape of porcelain steam kettles, dry racks, etc.

The south building, or that portion of the main building shown upon the

The label stock room adjoining the printing department is filled with pigeon-holed cases containing many thousand different kinds of labels, the total stock of these numbering several millions.

it has grown and the number of firms now similarly engaged is good evidence that the plan which was christened "The New Idea" finds great favor with the retail drng trade. This department is equipped with mixing tanks, hydraulic filters, strainers and pumps for conveying liquids into the adjoining bottling department, where are found automatic filling machines, the ordinary gravity fillers and special force pump fillers for thick liquids, such as syrups, emulsions, etc. The bottle-washing room is an interesting department even to those who have passed the period of apprenticeship. Automatic bottle washers (the invention of the firm), bottle dryers, etc., make up a plant for the rapid cleaning of bottles, which, for rapidity and effectiveness of work, is hard to excel.

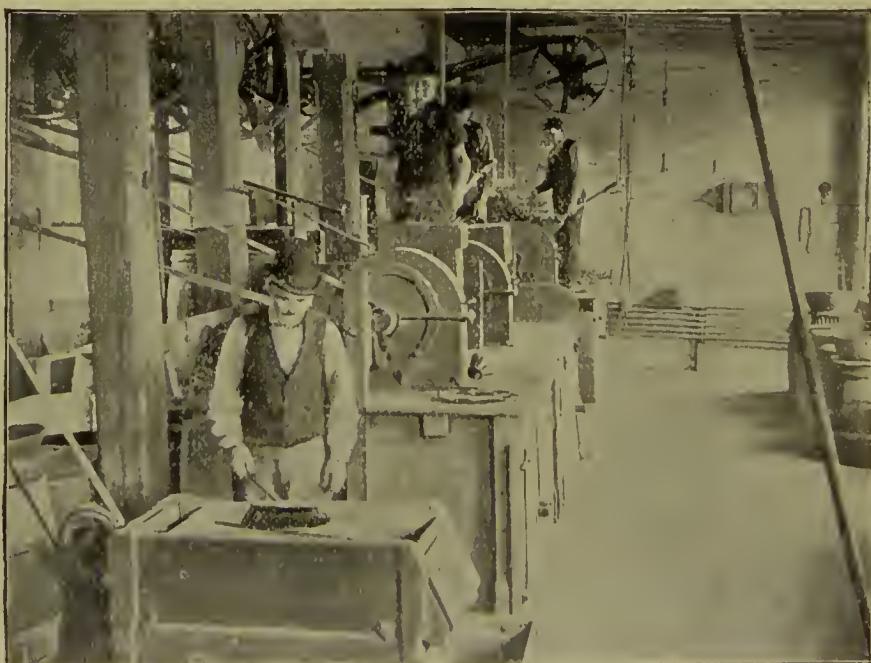
The first floor of the southern portion of the building fronting on Twenty-first street is devoted to the storage of filled stock; the non-secret finishing room, 120 by 30 feet in extent, in which forty girls are employed, and the packing and shipping department. In these latter rooms all the different items of a customer's order are assembled and got ready for shipment. Sawdust is the packing mostly used, and is brought to the works in wagons and conveyed to huge bins on the third floor by means of blowers. As the packers arrange the different articles in the packing cases, a slide is opened at intervals as the packing progresses and the sawdust allowed to slide down a chute and fill the spaces between the articles being packed. After being marked the packages are then ready for shipment, and the directions upon some of the



A row of Chaser Mills for powdering drugs.

right in the illustration, is devoted to the printing office of the establishment and the "non-secret" medicine business. The former consists of a composing room where the typesetting for all the labels, wrappers and circulars used by the firm is done, as is also that for the neat little monthly publication issued by the firm and called "The New Idea." This sprightly journal occupies a unique position in pharmaceutical journalism, as it sails under its own colors as a professed organ of the business in which its publishers are engaged, but at the same time it has made many valuable contributions to the literature of pharmacy since its inception in 1879. The printing department is equipped with fifteen printing presses, four of them large cylinders, power paper cutters, folding machines, wire stitchers, ink grinders, in fact all the appliances necessary to turn out a bound book in the highest style of the art. The typographical excellence of the printed matter issued by this firm is especially noteworthy, and they take considerable pride in the fact that they can turn out as fine color work upon their own presses as they can obtain anywhere in this country. As examples are their own work upon calendars, blotters and similar tasty little works of art, which they send out to their customers and friends from time to time, all of them gems in their line, and their work upon their calendar for 1894, which consisted of a reproduction of a painting photographed in natural colors, which, besides being the first work of the kind ever offered to the public, was of a character which an establishment devoted exclusively to such work might be proud to own.

The ground floor contains the "grease" department, with its machinery for making ointments, suppositories, cosmetics, etc., and especially constructed centrifugal churning for the manufacture of emulsions. Upon this



A line of Disintegrators for grinding drugs.

floor is also found the "non-secret" manufacturing department. This idea of furnishing domestic remedies of approved formula, to take the place of the secret and high-priced "patent" medicines, was originated by this firm in 1876, and the proportions to which

cases show that their journey is to be a long one. Among the orders ready for shipment could be noticed the names of Scott & Co., Rangoon, Burmah; Sen & Co., Delhi, India; N. S. Fernando, Colombo, Ceylon; New Zealand Drug Co., Christchurch, N. Z.; Lennon &

Co., Cape Town, S. A.; F. D. Shepard, M. D., Aintab, Turkey; Salvador Alsinia, Barcelona, Spain; Arteaga Revenga & Co., Caracas, Ven.; Dr. C. Lopez, Lascayo, Guayaquil, Ecuador, and many others in as equally remote

countries. An adjoining room, made dust-tight, is used for the handling of powders, such as tooth, insect, etc., and goods of a similar light character. The remaining departments upon this floor are a large room devoted to the pack-

have the reputation of putting out the handsomest packages of any house in their line of business, and an inspection of the work done in this department seems to prove it.

The boilers and engine which furnish the motive power for this great establishment are in an isolated building located in one of the courts. This location affords a great protection against fire. Two boilers supply steam for the engine and for heating the buildings. In the engine room is located a dynamo which generates the electricity for lighting all those departments of the establishment where alcohol or other easily inflammable substances are used. The other departments are lighted by gas made on the premises by means of a Michigan gas machine, which supplies about 400 jets. As there are 300 electric lights in the building, the firm may well claim to have one of the best lighted laboratories in the world. Adjoining the engine room is a well-equipped machine shop, where an experienced machinist is kept continually employed in making new appliances, or repairing old ones. Much of the machinery used by F. Stearns & Co. was made in this shop, such as their gelatine pill plant, centrifugal emulsifiers, seidlitz powder, bottle-capping machinery, etc. Over the boiler room is an extensive dry room fitted with iron racks, blowers, etc., where all green drugs in bales are stored before being ground in the mill room, which is close at hand.

The foregoing is but a brief mention of the various departments which go to make up this great pharmaceutical establishment. The great engine fur-



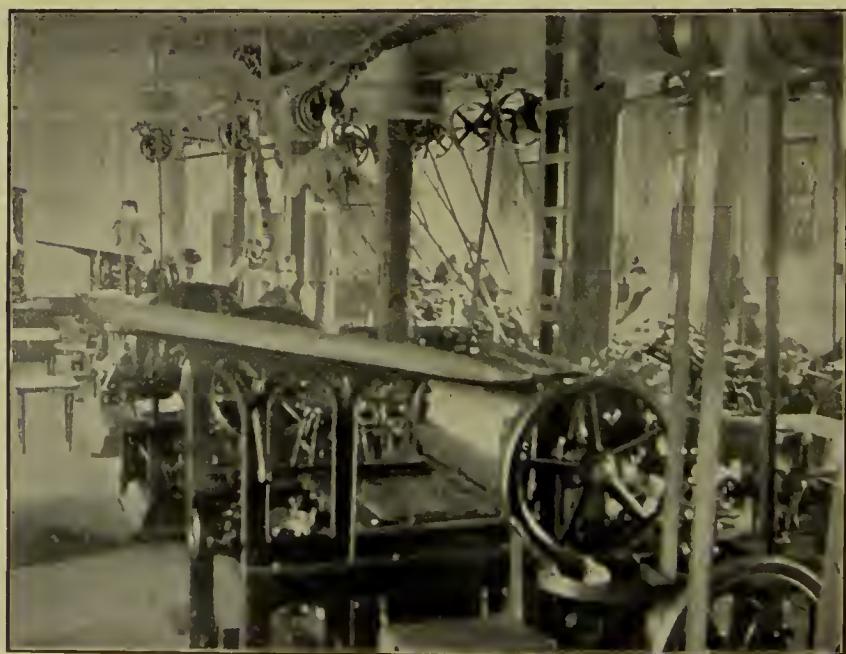
Printing Department

The Composing Room.

corners of the earth. Upon the second floor of this section of the building is found the department with special machinery for the manufacture of cartons and knock-down boxes, the paper stock room, and the bindery, where the work of folding and stitching the various publications of the firm is done, mostly by machinery, only the gathering of the printed sheets being done by hand. The seidlitz powder room upon this floor contains new and ingenious machines devised by Stearns & Co. for weighing and measuring the powders. These machines work automatically, and insure the highest degree of accuracy in the powders which they deliver. This firm has always been favorably known for the high quality of the material used in their seidlitz powders and for the attractive forms and original styles in which their goods in this line are put up, their latest attraction being a large envelope with the powders each in a small envelope, these latter being wrapped in waxed paper.

In another room a dozen girls are employed putting up Stearns' Instant Headache Cure. This preparation enjoys a remarkable sale, considering the fact that the formula is not secret, and not a dollar has been spent in advertising it to the general public. It is put up in cachets which are imported, but the work of making the preparation and the filling is done at Detroit. The foreign factory furnishing these cachets state that F. Stearns & Co. are the largest consumers of their goods in America, their orders sometimes exceeding a million cachets a month. This preparation is handled by all the prominent jobbers, and it has had great success in holding its own wherever in-

ing, labeling and finishing of pills for shipment, and another room devoted to the work of getting out agents' samples and keeping their traveling outfits supplied. Almost all the entire top floor, which is 220 by 30 feet, is devoted to



Printing Department—The Press Room.

the manufacture and storage of paper boxes. It is equipped with the most modern and improved machinery, employs fifty hands and turns out every kind of box used in the institution except the folding cartons previously mentioned. Frederick Stearns & Co.

nishing the motive power to drive the machinery has been referred to, but the visitor in search of the real motive power should turn his attention to the offices where all the business of the firm is transacted. These are situated upon the first floor facing Twenty-first

street, and extend from the main (and only) entrance, near the middle of the building, to the north end, a distance of 180 feet. Owing to the fact that this space is divided up into fifteen offices, including those on the second floor, the

to keep any man busy the better part of his time. The next room is occupied by the assistant treasurer, Mr. W. L. L. Stearns, who, in addition to the duties of that position, has charge of the private formula work. Directly



The general labeling and finishing room.

effect is not so imposing as it would be were they all in one large room; but for retirement and quiet in transaction of business the arrangement has decided advantages. Entering the front door, one comes into the reception office, where a girl is in attendance to wait upon the visitor and convey his message to the person whom he wishes to see. Adjoining this office is the city or telephone office, where all the city telephone business is done, and where telegraph messages are sent and received. In this room is a circulating library donated by the firm for the use of all its employees. The next office is that of the superintendent, Mr. L. H. Gardner. In there is found the formula department, from which every formula used in the laboratory must be obtained by proper requisition. Such a perfect system of checking is observed in this department that mistakes are almost, if not entirely, out of the question. The general office is the next in rotation, and is presided over by Mr. N. A. Tabor, who has charge of orders, collections and claims. Here the mail is opened and distributed, orders entered and priced, drafts sent out, letters copied, etc., etc. This office employs twenty persons, including three stenographers, and is an exceedingly busy place. Off from the main office is a large fire-proof vault, 10x30 feet in extent, in which are kept the account books, order books and safe. Next adjoining the main office is that of the vice-president and treasurer, Mr. F. C. McLaughlin, who, with his secretary, is pleasantly located. Mr. McLaughlin, in addition to looking after the finances of the firm, attends to the buying, which in itself is enough

across the hallway is the office of the assistant superintendent, Mr. W. G. Rankin, and next in order is the book-keeper's office, where four experts keep the accounts only, all the other clerical work being done in the main office.

tends to the correspondence of inquiry, and makes quotations on goods. The next office in order is that of Wayland D. Stearns, assistant general manager, who has the assistance of four clerks and a stenographer. The last office on the ground floor is that of the president and general manager, Mr. F. K. Stearns. This is fitted up modestly, yet in good taste, and being the most remote from the works, is quiet and retired. Returning to go upstairs, one passes through the letter file room, where are stored away the thousands of letters and orders received during a single year only. A stairway in this room leads up to the agents' reception room and office of Mr. D. M. Gray, manager of the traveling department. It is here that the "traveling boys," some fifty in number, meet and compare notes, do their correspondence, etc. Mr. Gray's only assistant is his stenographer. Adjoining Mr. Gray's office is that of Mr. M. R. Gatell, manager of the Spanish department, who attends to all the correspondence, making out of orders, arranging for the printed matter for the same, invoicing, etc., and who, being a skillful typewriter himself, needs no assistant for such work. The last office to be mentioned is that of the Physicians' department, in charge of Dr. W. B. Winn. Here is kept account of the work of the detail men and the general correspondence with physicians. Dr. Winn has two stenographers and a clerk.

The various departments of the laboratory number forty-eight, and all are under the direct supervision of registered graduate pharmacists, so that all the operations of manufacturing re-



Finishing Department of Paper Box Factory.

Next comes the office of the secretary, Mr. Thomas Bennett, who is assisted by Mr. S. C. Stearns, assistant secretary, two clerks and a stenographer. Mr. Bennett has entire charge of the foreign business, which takes up the greater part of his time, although he also at-

receive that careful attention which only a thorough knowledge of all the details of the science of pharmacy can give.

In addition to the Detroit laboratory, the firm has another establishment at Windsor, Canada, in charge of Mr.

Irving H. Taylor. This branch has charge of the firm's trade in the Do-

Cod Liver Oil, Cascara Aromatica Haemoferrum (Blood Iron), their de-

World's Columbian Exposition, 1893, the total number of awards received by the firm being fifteen.

A reference to the personnel of the house of Stearns would be incomplete without a mention of its founder, Mr. Frederick Stearns, who although a stockholder in the business, has had no official connection with the firm since his retirement in 1887. Mr. Stearns, senior, came to Detroit in 1855, and engaged in the drug business, and his successful experience of over thirty years as retail and wholesale druggist and finally as head of one of the largest manufacturing establishments in the country is one which falls to the lot of but few men. Although he still retains great interest in the affairs of his chosen profession, his later labors have been mostly those of a citizen of the republic of letters. He has traveled extensively in foreign countries, and his knowledge of the history, customs and manners of some of these, especially China and Japan, has earned for him much favorable notice as a collector of curios and as a lecturer and writer upon the latter countries. The Stearns' collection of Japanese and Corean art objects, numbering some sixteen thousand pieces, which was presented by him to the Detroit Museum of Art, has been pronounced the most carefully selected, typical and complete collection of its kind in this



A corner of the general office where the orders are entered.

minion, and is fully equipped for the manufacture of everything in the pharmaceutical line. The New York office at No. 1 B. Platt street is in charge of Mr. N. T. Pease. The London, England, office at 25 Lime street is in charge of Mr. W. A. Richardson, resident manager. The Australian business is looked after by Mr. R. H. Roe, who has an office at 37 Pittstreet, Sydney, N. S. W. The maintenance of these offices is necessary on account of the firm's extensive foreign trade, which they estimate at about one-fifth of their output. They enjoy the distinction of being the first American pharmaceutical manufacturing house to engage extensively in foreign trade, having commenced in South and Central America in 1882, and in Australia, India and South Africa in 1885; and their elegant publications in the languages of these foreign countries have been important factors in the development of this trade. In addition to the executive staff mentioned, the firm employs between four and five hundred persons, and has a force of fully fifty travelers, including detail men, who are kept busy the year round informing the medical and pharmaceutical world of the superiority of the firm's manufactures, calling especial attention to their specialties, the Wine of

licious Kola Cordial, and Dike's Peppermint, and in this connection it is quite



The President's office.

pertinent to state the first two mentioned each received an award at the

country.—[*Pharmaceutical Era*, May 1, 1894.]



# FREDERICK STEARNS & CO.

Beg to invite the attention of the English Trade to the preceding 16 pages of matter, illustrating and describing their goods and plant where the same are produced.

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Beef Tea Jelly	"O.K." Sauce
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Meat Lozenges	"O.K." Curry Powder

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## NEWBALL & MASON'S INSERT

(Between pages 32 and 33)

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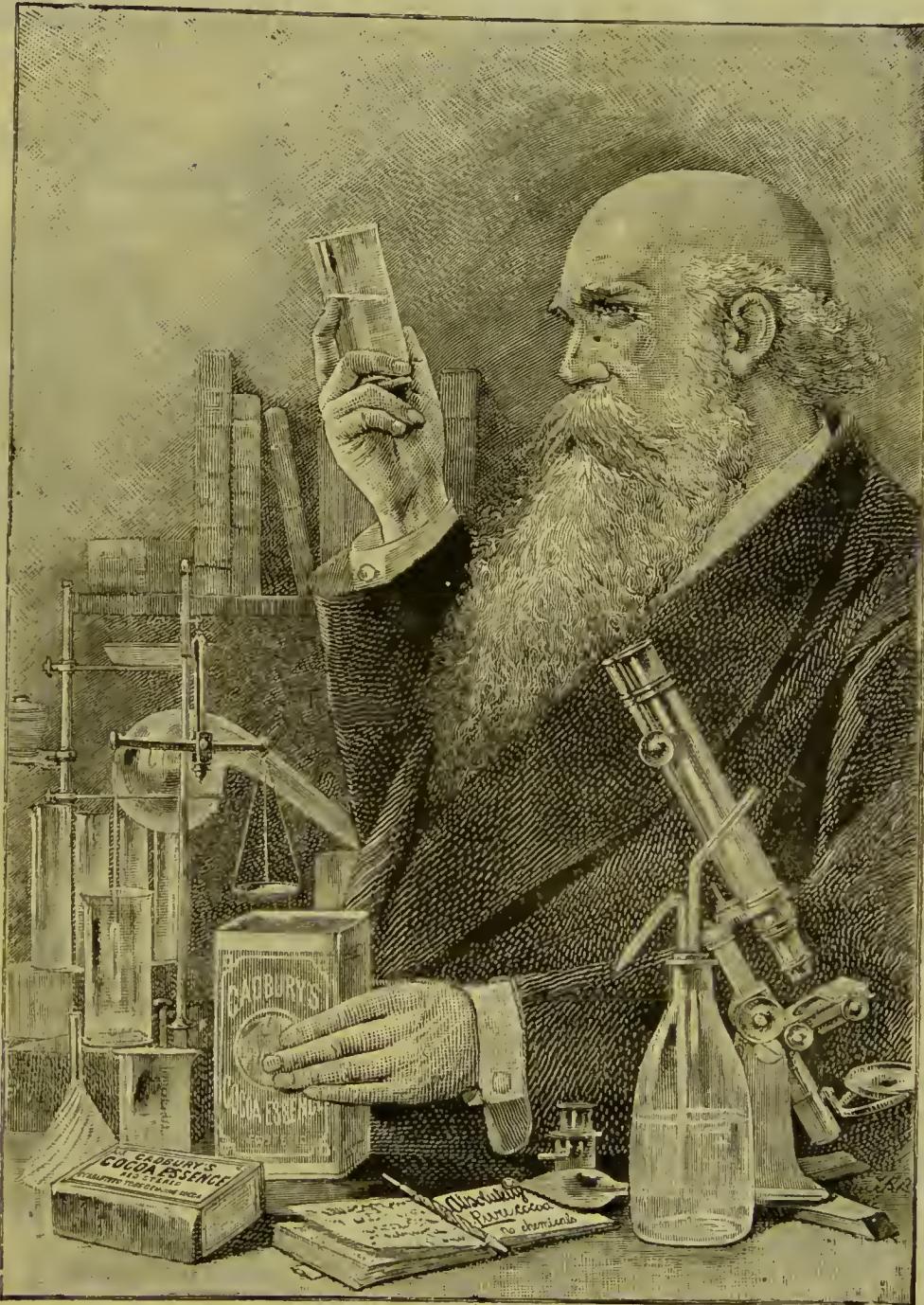
Monthly Price List of Patent Medicines, Druggists' Sundries, &c., will be sent post free on application to  
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ABSOLUTELY PURE—THEREFORE BEST.

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## CADBURY'S COCOA ESSENCE

Is closely allied to milk in the large proportion of flesh-forming and strength-sustaining elements that it contains. It is prepared on the principle of excluding the superabundance of fatty indigestible matter with which Cocoa abounds—supplying a refined thin infusion of absolutely pure Cocoa, exhilarating and refreshing—giving staying-power and imparting new life and vigour to growing children and those of delicate constitutions.

**CADBURY BROTHERS** earnestly appeal to the Medical Profession to encourage the consumption of pure home-made preparations, like their Cocoa Essence, which has received the unqualified support of large numbers of eminent Physicians and Surgeons.

For Prices, &c., apply, **CADBURY'S**, Bournville, near Birmingham.

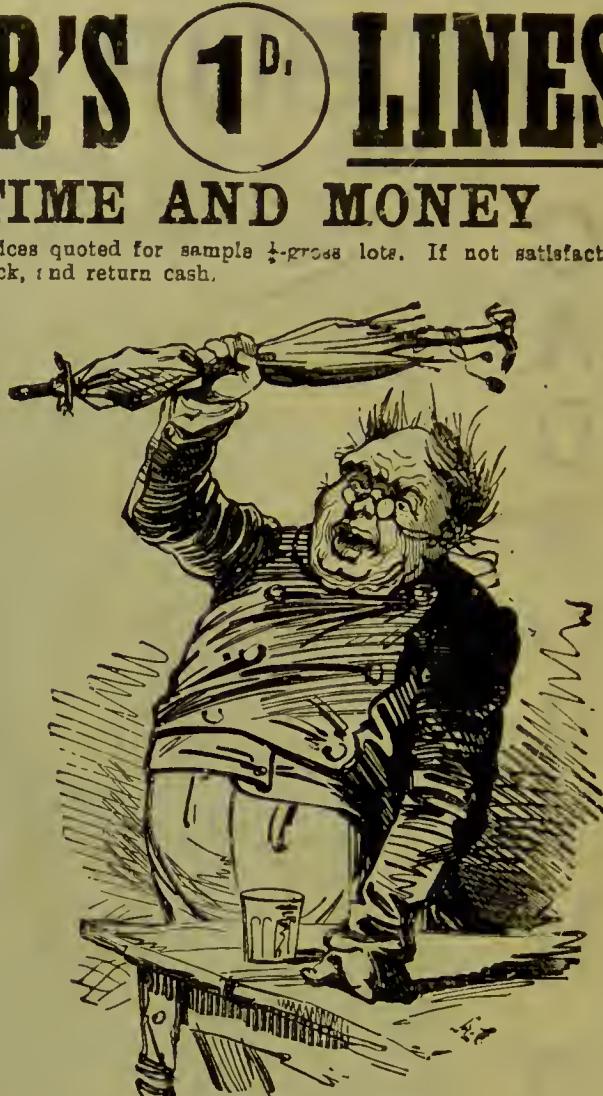
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 CHEMISTS SAVE TIME AND MONEY

By selling my "Plain Label"\*\* Lines. Should remit prices quoted for sample  $\frac{1}{2}$ -gross lots. If not satisfactory I will pay carriage back, and return cash.

<b>*PENNY PETROLEUM JELLY</b>	Per gross
In $\frac{1}{2}$ -gross tin boxes .....	5/- double size, 7/6
<b>PENNY CEMENT (largest and best)</b>	
On $\frac{1}{2}$ -gross cards .....	5/3
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$\frac{1}{2}$ -gross glass-top boxes .....	at 5/-
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In 1-dozen parcels .....	at 6/3
<b>*PENNY GLYCERINE</b>	
$\frac{1}{2}$ -gross glass-front boxes .....	at 6/-
<b>*PENNY CASTOR OIL</b>	
$\frac{1}{2}$ -gross glass-front boxes .....	at 5 6
<b>*PENNY BLACK INK</b>	
In 1 dozen parcels .....	at 4/3
<b>*GOLDEN PETROLEUM JELLY</b>	Per doz.
4-oz. glass, metal screw cap .....	3/-
8-ez. " " This is warranted pure, and is a thoroughly good line. ....	5/-
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In 1-dozen parcels .....	at 5/9
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<b>PENNY INSECT POWDER</b>	
In perforated tins .....	at 4/6
<b>*PENNY MENTHOLS</b>	
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6 in a box, $\frac{1}{2}$ -gross cards .....	4/6
SPECIAL NEW LINE.	
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Block Toots, fitted complete with Shield, Union, and Gord, on $\frac{1}{2}$ -gross cards at 7/-; this is a good line, and sells freely.	
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(Gutta Percha Enamel for Stopping Decayed Teeth.)	
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[3]

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**WORCESTER, READING, HARVIE, YORKSHIRE.**

					Per Gross.		Extra Quality
1d. Sample Bottles, dozen parcels	...	...	...	...	5/3	...	6/6
1d. " Giant " ½-gross boxes	...	...	...	...	5/9	...	7/-
1d. Giant " dozen parcels	...	...	...	...	6/6	...	9/-
" " ½-gross boxes	...	...	...	...	7/-	...	9/6
½ Bottles, flat or round, reputed ½ pints	...	...	...	...	16/-	...	26/-
½ Pint " Imperial ", round stoppered bottles	...	...	...	...	26/-	...	38/-
12½-Gallon Casks ( <i>casks free</i> )	...	...	...	...	52/-	...	62/-
				... each 20/-		...	32/-

# ROYAL CAFE SAUCE,

A RICH FRUITY & EXQUISITE FLAVOUR.

Square Glass Stoppered Bottles, containing nearly ½ pint Imperial, 42/- per gross. Sample Bottles at 7/- per gross.  
8 oz. in doz. 3/9 per doz.

## "BOROUGH" KETCHUP. SILVER MEDAL.

Cash Price—20s. for 12½ Gallons.

CASKS FREE.

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[2]



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**NEEDS NO GUARANTEE.**

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*An entire Diet for Infants, Children, and Invalids.*

"Renders valuable assistance in Wasting Fever."  
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Pamphlet containing Extracts from Standard Medical Works in which the above Testimony is given, sent free with Sample Tin on application to H. NESTLÉ,  
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Which, through its RICHNESS in CREAM and UNIFORMITY of QUALITY, has obtained the Largest Sale in Great Britain. It can be used for all purposes of FRESH MILK.

Samples to Members of the Medical Profession only, sent free on application to  
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HOME GENUINE WITHOUT THE



# TOWER TEA

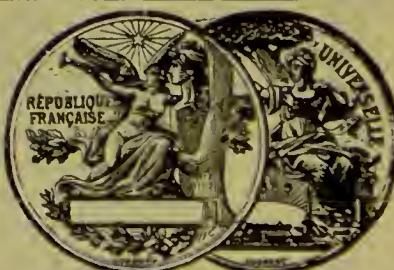
HIGHEST AWARD, PARIS, 1889.

*Analysis by the "LANCET," December 20th, 1890:—*

"We have submitted to examination the Teas of the Great Tower Street Tea Company (Limited). They all yield liquors which are generous to the taste, and of full strength and vigour. The results of our analysis indicate the purity and genuineness of the samples."

REGISTERED TRADE MARK.

Where Vacancies exist, Agencies are appointed by



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## BLENDED TEAS.

\* SPECIAL WHOLESALE PRICES. \*

**STANDARD BLENDED TEA.** NETT CASH PRICES  
BOXES 20 lbs. 40 lbs. & 60 lbs. CHESTS 100 lbs NETT. Carriage Paid on 60 lbs & Upwards

N <sup>o</sup> 1. 10/-	N <sup>o</sup> 1A 11/-	N <sup>o</sup> 2 1/-	N <sup>o</sup> 2A 1/1	N <sup>o</sup> 3 1/2	N <sup>o</sup> 3A 1/3	N <sup>o</sup> 4 1/4	N <sup>o</sup> 4A 1/5½	N <sup>o</sup> 5 1/7	N <sup>o</sup> 6 1/10
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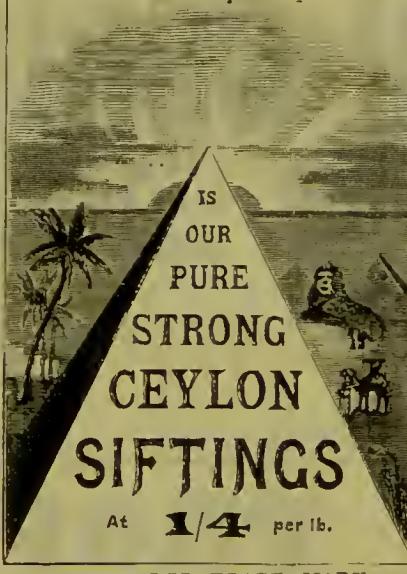
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AGENTS WANTED EVERYWHERE.

THE BEST TEA  
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OUR  
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To Sell at 1/4,  
THE PRICE IS

1/- per lb.,  
In 60-lb. Half-Chests.  
Nett Cash with Order.

CARRIAGE PAID.

A Better Tea for 1/4 than  
any Leaf Tea at 2/6.

Above is now supplied in 1-lb.  
Tins, and Half-Pound, 6-oz., and  
Quarter-Pound Packets, at 1/-  
per lb. Handbills, Billheads, Printed  
Envelopes, Window Bills, &c., supplied.

**"PACIFICUS" PURE CEYLON TEAS.**

In Lead Packets,  $\frac{1}{4}$  lb.,  $\frac{1}{2}$  lb.,  
1 lb., &c.

To Retail, 1/4	Wholesale, 1 -
" 1/6	" 1/2
" 1/8	" 1/3
" 1/10	" 1/5
" 2-	" 1/6
" 2/4	" 1/10
" 2/8	" 2/2



Or without selling prices on labels,  
"PACIFICUS" TEAS from 1/- to 2/-

Customers' own names can be printed  
on Labels if 200 lbs. ordered at first.  
Carriage paid on 60 lbs. and upwards.  
With orders for 100 lbs. a handsome  
framed and glazed Bill is sent.  
Window Bills, &c., supplied.

Wholesale only of **PEARSE & MEEKING, 42 MINCING LANE.**

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HIGHEST AWARD  
CHICAGO EXHIBITION  
1893.



These Cachoux are supplied only in Brass Boxes, of which there are three sizes.

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"THE BEST AND PUREST."

Larger sale than any other first-quality juice. To be had of all Wholesale Houses.

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There is no Proprietary that will give you such a good return as "PEPSALIA"—40% on your outlay, and no "cutting," no "underselling."

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# STOKES' PATENT CHECK TILL.

**REDUCED  
PRICE,**

1 TILL,	<b>60/-;</b>	<b>5/-</b>	Discount in 3 days.	{
2 TILLS,	<b>120/-;</b>	<b>20/-</b>	" "	
3 "	<b>180/-;</b>	<b>30/-</b>	" "	

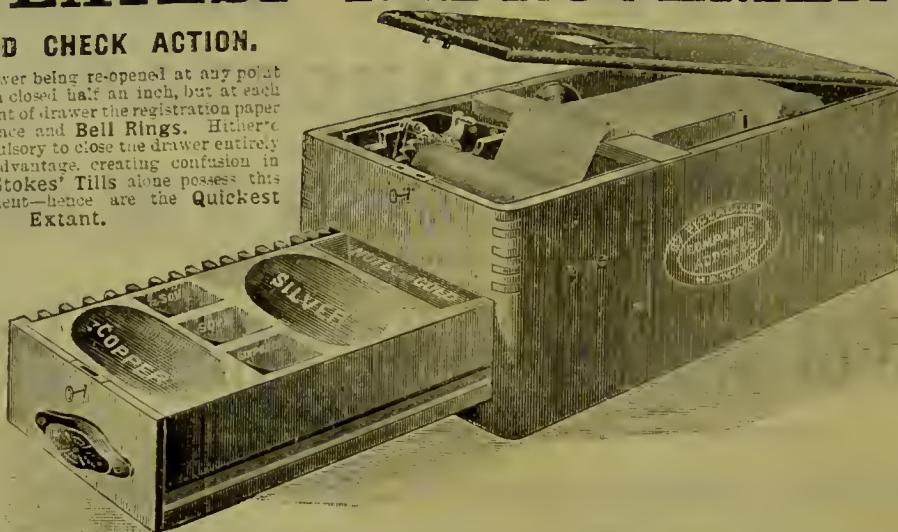
Carriage  
Paid.

**3,800 SOLD IN FOUR YEARS.**

## LATEST IMPROVEMENTS.

### IMPROVED CHECK ACTION.

Permits the drawer being re-opened at any point after having been closed half an inch, but at each outward movement of drawer the registration paper Travels one space and Bell Rings. Hitherto it has been compulsory to close the drawer entirely to secure this advantage, creating confusion in busy periods. Stokes' Tills alone possess this great improvement—hence are the Quickest Extant.



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No. 1 Design of Till carries Paper as illustrated below.

[SIZE REDUCED : ACTUAL WIDTH 2½ INCHES.]

No.	Payments.		Receipts.
1.	Cockle's Pills		10½
2.	5 6	Carriage	
3.	Brush	4 6	
1.	Comb	1 6	
2.	Rooke's Elixir	11 0	
	10 0	Wages	
3.	Brown's a/c	6 10 0	
2.	Belt	1 10 0	
	15 6	8 17 10½	
	Credit	15 6	
Cash in drawer		8 2 4½	

### WIDER PAPER.

No. 2 Design of Till carries Paper as illustrated below.

[EXACT WIDTH 3½ INCHES.]

	Payments.	Details.	Receipts.
		H. Smith	4 0 0
		Carriage	
	17 6	Silk hat	1 1 0
		Jones' a/c	14 0
	5 5/-	Self	
		Umbrella	15 0
	6 2 6		6 10 0
		Credit	6 2 6
		Cash in drawer	7 6

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### LARGER MONEY BOWLS.

Thus giving increased money capacity, and at the same time occupying smallest counter space—only 17×7×7 inches.

# ENORMOUS REDUCTIONS

## ROLLS FOR LOFT'S TILLS.

	WIDTH. $2\frac{1}{2}$ inches.	LENGTH. 45 yards.	ONLY.
1 Dozen Rolls	-	4/-	
6 " "	-	20/-	
12 " "	-	37/6	

## ROLLS FOR O'BRIEN'S TILLS.

	WIDTH. $2\frac{1}{2}$ inches.	LENGTH. 45 yards.	ONLY.
1 Dozen Rolls	-	4/-	
6 " "	-	20/-	
12 " "	-	37/6	

Carriage Paid.

Samples on application.

TERMS:—

CASH WITH ORDER.

IN

## PRICE

OF

## CHECK

## TILL

## ROLLS

## STOKES' TILL ROLLS.

	WIDTH. 2 inches.	LENGTH. 22 yards.	ONLY.
1 Dozen Rolls	-	2/-	
6 " "	-	9/-	
12 " "	-	16/-	

## ROLLS FOR GLEDHILL'S TILLS.

	WIDTH. $3\frac{1}{2}$ inches.	LENGTH. 20 yards.	ONLY.
1 Dozen Rolls	-	3/3	
6 " "	-	15/-	
12 " "	-	27/6	

## No. 2.

	WIDTH. $3\frac{1}{2}$ inches.	LENGTH. 65 yards.	ONLY.
1 Dozen Rolls	-	8/-	
6 " "	-	37/6	
12 " "	-	72/-	

Cheques made payable to the Company, and crossed "Manchester and Liverpool District Banking Company, Hanley."

CHECK TILL AND PAPER MANUFACTURERS,

**G. R. STOKES & CO., Ltd.**

HANLEY, STAFFORDSHIRE.

# THE "GLEDHILL"

PLEASE READ THIS CAREFULLY!

Oglesby's Drug Stores, Barnsley.

"Experience, hard experience too, has demonstrated beyond the shadow of a doubt that neither we nor any other up-to-date tradesman can afford to be without a check till. Ignorance may lead some to doubt this, only to hasten the survival of the fittest; themselves seeking assistants' berths as a result. We have tested, tried, and made inquiries about all sorts and conditions of Tills, American and otherwise, the result being that we hold two of Gledhill's No. 1 Tills, and have used them continuously for four years. They never get out of order, and will do everything in the way of protection, except collaring a man, and singing out 'Stop thief.' The cost—Well! ask Mr. Gledhill to let you have one on approval, and it is a £1 000 to a gooseberry on you keeping it. We are so satisfied that up to the present a Gledhill No. 1 Till is the best Till for all tradesmen, and especially for Chemists, that we shall be glad to prove the matter up to the hilt, against any other Till extant, to anyone who cares to write us; and to send two good *wrinkles* to anyone using a Gledhill No. 1."

UP-TO-DATE DESIGNS.  
UNPARALLELED VARIETY.  
COMPREHENSIVE FEATURES.  
WORLD WIDE FAME.

AUTOMATIC CHECK  
AND VOUCHER

# TILLS.

## YESTERDAY

It was necessary to draw comparisons between open tills and the Gledhill System of Check Tills; that is, it was natural.

*Its Advantages are now Acknowledged Everywhere.*

## TO-DAY

We are engaged in combat with hosts of imitators who presume to take advantage of the demand we have created by the

THOUSANDS WE HAVE SOLD.

## TO-MORROW

You will justify us in this engagement if you will send for any Till chosen from Our Illustrated and Descriptive Catalogue. Use it for 14 days; compare it with anything bearing the name of Till; and—well?—and what? Send it back to be broken up for firewood if it fails to be

## THE CONQUEROR OF ALL TILLS.

EVERY CHEMIST SHOULD HAVE THIS CATALOGUE.

POST FREE ON APPLICATION TO

**G. H. GLEDHILL & CO.**  
PATENTEES AND MANUFACTURERS.

TRINITY WORKS, HALIFAX, ENGLAND

# THE PATENT 'VOUCHER' CHECK TILL STILL LEADS!



AND OWING TO IMPROVED FACILITIES OF PRODUCTION IS NOW REDUCED TO WITHIN EASY REACH OF THE SMALLEST SHOPKEEPER.

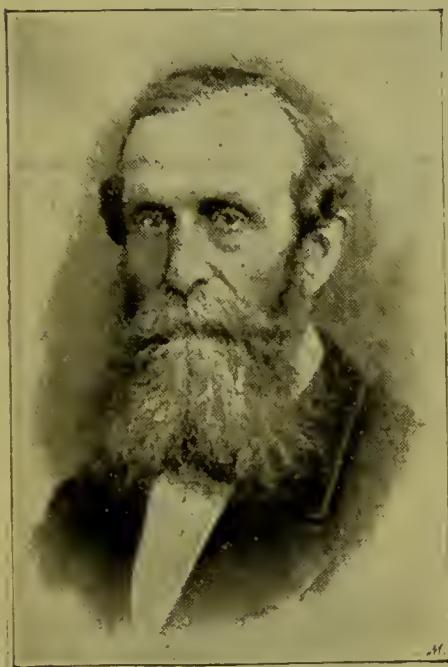
Our IMPROVED 'VOUCHER' and other Check Systems are being used by the largest and most successful Cash Traders in the country, converting deficits into PROFITS, and increasing small into LARGE PROFITS.

Prices from £3 10s., and Testimonials free from

**THE PATENT  
'VOUCHER' CHECK TILL CO., LTD.  
WALSALL.**

How I wish I had known of that 'Voucher' Check Till earlier; I should have saved many a pound and endless worry.

# O'BRIEN'S PATENT SELF-CLOSING CHECK TILL



Having had sixteen years' experience selling Check Tills, I have avoided existing defects and adopted improvements for speed and security which make my Patent SELF-CLOSING Till the best in the market, as proved by the testimony of hundreds of business men using them.

## SPECIALLY SUITED FOR CHEMISTS & DRUGGISTS.

### TESTIMONIALS FROM CHEMISTS AND OTHERS.

- "I have compared it against other competing Tills and prefer yours."
- "Till very satisfactory, only wish I had had one sooner."
- "Your Till is the best I have used."
- "No more trouble than an ordinary open Till, while its advantages are innumerable."
- "The working is simplicity itself and the advantage of the Self-Closing Drawer has only to be experienced to be appreciated."
- "I have already detected robbery through the use of it."
- "Are very pleased with the Till, for after looking at most of the Tills now in existence we have come to the conclusion that yours is the best."
- "They ensure accurate balancing of cash at the close of each day—a thing almost impossible without them."
- "In comparison with other Tills I have had on trial are much superior."
- "Please forward another Check Till. We have been using one of ——'s, but shall return it on receiving yours."

## THE ONLY SELF-CLOSING TILL.

IS THE BEST AND QUICKEST IN USE.

Price £3 Nett Cash,

Or £3 10s. Three Months.

Made in Solid Mahogany.

Size - - - 18 x 10 x 7 inches.

**FOURTEEN DAYS' TRIAL  
BEFORE PURCHASE.**

### THE MOST CONVENIENTLY ARRANGED TILL.

It occupies but little room on the counter. It is the only Check Till at the price with a tray under lock and key.

**ENORMOUS SUCCESS!**

Hundreds of Testimonials  
and Repeat Orders.

Already over 1,000  
in Use in the United  
Kingdom.

Where tried against others  
gets the preference.



Send for One on  
Trial.

**THOS. O'BRIEN,  
FERN GROVE, LODGE LANE, LIVERPOOL**

HAS THE LARGEST SALE OF ANY SMELLING BOTTLE IN THE WORLD.



It is the most popular shilling article in the market, being well got up and largely advertised, commands a rapid sale, bears a large profit, and gives universal satisfaction.



Counter prescribers can recommend it with confidence for cold in the head, nervous headache, and faintness. Sent out in 1-dezen cases. Wholesale from all the Patent Medicine Depots.



Show Cards and Handbills from MACKENZIE'S CURE DEPOT, READING, ENGLAND.  
Depot for United States and Canada—THE MACKENZIE DRUG COMPANY, Ltd., CHICAGO, ILL., U.S.A.

# BATES'S POPULAR SPECIALITIES.

SHOULD ALWAYS BE KEPT IN STOCK.

One  
size only,  
1/6.  
Send for  
a  
Show  
Card.



Yields  
a  
good  
old  
fashioned  
profit.

BATES'S  
SULPHUR  
SALT,  
Regd.,  
1/2  
1/9  
4/6



Always  
Sells  
Feeely.  
The  
Delicious  
Effervescent.

THESE PREPARATIONS can be obtained of all Wholesale Houses. Show Cards and Counter Bills sent on application.

SOLE PROPRIETOR—F. W. BATES, CHEMIST, BROOKS'S BAR, MANCHESTER.

**TIDMAN'S SEA SALT.**

**TIDMAN'S SALICYLIC TOILET SOAP.**

**TIDMAN'S GLYCERINE AND CUCUMBER SOAP.**

**TIDMAN'S WHITE ROSE & CUCUMBER SOAP.**

**TIDMAN'S OATMEAL AND COLD CREAM SOAP.**

**TIDMAN'S "VASTO" INSECTICIDE.**

APPLY FOR LISTS AND SAMPLES TO

**TIDMAN & SON, BUSHILL STREET, LONDON, E.**

SOLE LONDON AGENTS FOR THE

**PATENT DEADLY FLY TRAP.**

£5 orders Carriage Paid in England, Scotland, and Ireland.

# WHENEVER FLUID EXTRACTS

Of our manufacture differ from similar preparations  
of other manufacturers,

We are perfectly Willing to Abide by the Result of Clinical Investigation.

WHEN SPECIFYING P. D. & CO., PLEASE REMEMBER THAT OUR FLUID EXTRACTS ARE ISSUED IN  
16 FLUID OZ., 8 FLUID OZ., AND 4 FLUID OZ. CONTAINERS.



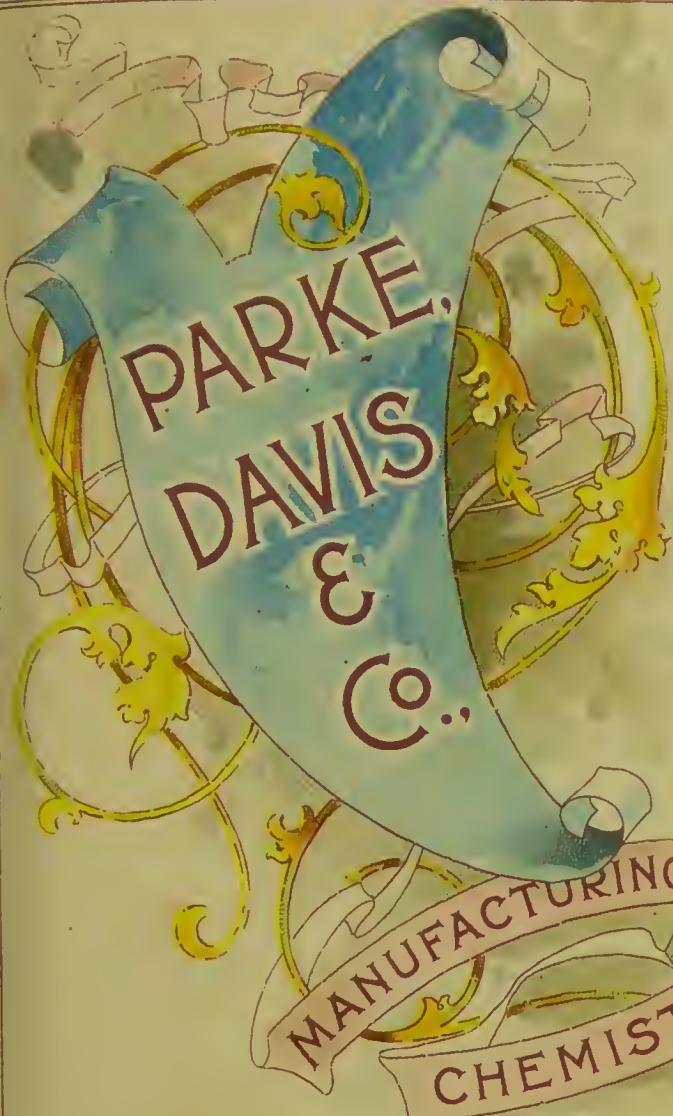
**INSIST UPON ORIGINAL PACKAGES**

→ Send for Illustrated Price List. ←

# PARKE, DAVIS & CO.

21 NORTH AUDLEY ST. (451 OXFORD ST.), LONDON.

(See our Inset facing this page.)



LABORATORY AND WAREHOUSE:  
34 NORTH ROW, OXFORD ST., MAYFAIR,  
LONDON, W.



OFFICES:

451 OXFORD ST., 21 NORTH AUDLEY ST., MAYFAIR,  
LONDON, W.

# A CONDENSED LIST

— OF —

# PARKE, DAVIS & CO.'S

## PHARMACEUTICAL PREPARATIONS,

Pills, Extracts, Tablets, Etc.

### TO THE TRADE:

We have much pleasure in submitting to the Drug Trade the accompanying list of some of our Preparations, and in doing so, we would take the opportunity of thanking our patrons for the favour with which our products have been received in the past, both in the United Kingdom and the Colonies. We wish to assure our friends in the Trade that we shall continue to spare no pains in maintaining our reputation for furnishing only the highest class of pharmaceutical preparations.

The lists of Extracts, Pills, Tablets and other lines represented in this Supplement are much abbreviated and are intended principally to convey a general idea of the extent of our operations as Manufacturing Chemists rather than to show a detailed catalogue of all our products.

*A complete Price-list of all our Preparations sent post-free upon application.*

We invite special attention to the remarks on *Cascara Sagrada, Food Products, etc.*, on page 18.

In addition to the preparations here listed, we market extensive lines of Powdered Extracts, Syrups, Wines, Elixirs, Oleates, Inhalants, Veterinary Hypodermic Tablets, Empty Capsules, Digestive Ferments, Food Products, Pressed Herbs, etc., etc.

## INFORMATION

Concerning Terms and Conditions upon which the Preparations Named in this List are Sold.

**PLEASE CORRESPOND WITH US FOR INFORMATION NOT COVERED BELOW.**

### REVISED PRICES.

Our products are sold subject to prices ruling on date of receipt of order. We cannot accept claims for an allowance in the event of a subsequent reduction, any more than we could make claim for the increased value of our preparations previously sold, because of a recent advance.

### REMITTANCES

Should be made by Post Office Order, Money Order, or bank cheque. Money or stamps sent by post will be at the risk of the sender, and we cannot be held responsible for loss during transit.

### CONTAINERS AND BOXES.

The prices in this list are inclusive; therefore no charge will be made for boxes or containers, except on special shipments of quinine or cinchonidine pills, or shipments made direct to purchaser's customers, or on articles ordered at special net prices, in bulk or in other than our regular stock containers.

### Omissions, Breakage, Leakage or Shortage.

We cannot hold ourselves responsible for any losses which may occur in the transportation of merchandise shipped by us, whether shortage, leakage or breakage, except in cases where the result is directly traceable to causes existing in our laboratory. The transportation companies act as the agents of the purchaser, and we must refer our friends to them for reparation in case of loss. If we are advised of claims on receipt of goods, we shall be pleased to render every assistance in our power in collecting them from the transportation companies.

### PARCEL POST PACKAGES.

Packages forwarded by post are at the risk of the consignee after delivery to the postal authorities.

### DETERIORATION.

We hold ourselves responsible to purchaser for the deterioration of articles of our general line which have not been tampered with after leaving our laboratory, referring particularly to the removal of CAP, CORK OR LABELS from the containers. But we cannot hold ourselves responsible for the deterioration of products which have been so tampered with or which have been unduly exposed to sunlight, extreme heat, cold or moisture; or which are liable to deterioration under influences beyond our control, and which leave our laboratory in proper condition.

### LOOSE LABELS FOR RE-DRESSING STOCK.

The application of a certain concern to a lithographer for quotations upon a quantity of labels bearing our card, as it usually appears upon our bottles, has caused us to adopt the policy of never supplying loose labels of this description to anyone. We have no doubt that almost every application we receive of this character is made in good faith, and yet any other policy than the one we have adopted would be unsafe. We have issued a printed circular giving further reasons for this rule, and we shall be very glad to send a copy to any dealer inclined to doubt that this policy is demanded by the highest interests of the pharmacist and physician at large, as well as by our own self-protection.

July 28, 1894.



HOME OFFICE  
AND  
LABORATORIES.

DETROIT, MICH.  
U.S.A.



CANADIAN LABORATORY, WALKERVILLE, ONT

## CONDENSED LIST OF PARKE, DAVIS &amp; CO.'S PREPARATIONS.

## Standard Fluid Extracts.

In 16-fl.oz., 8-fl.oz., and 4-fl.oz. Bottles.

A Fluid Extract represents therapeutically, in the proportion of cubic centimetre for gramme, the drug from which it is prepared. We regard it of the utmost importance that the drug employed shall be of the best quality. All drugs which contain definite active principles are subjected to a careful assay, by which we ascertain their value.

In our complete Price list, which we shall be pleased to send post-free on application, we append to each vernacular name the proper botanical name and authority, so that the drug can be readily identified.

Our friends may ensure the identity of the preparations they order by specifying particularly "Parke, Davis & Co.'s," and carefully examining the labels and caps on each bottle.

An addition of 4d. to list price per 16 fluidounces will be made on orders for 8-fl.oz. bottles, and an addition of 8d. per 16 fluidounces for 4-fl.oz. bottles. *Sixteen-ounce bottles will be supplied on orders in the absence of specifications to the contrary.*

If you order fractional packages of 4-fl.ozs. or 8 fl.ozs., insist upon receiving original packages with firm and descriptive labels attached. We do not hold ourselves responsible for the genuineness or quality of the product, unless it is supplied in original containers with cap and cork intact and properly labelled.

## OUR COMPLETE LIST OF FLUID EXTRACTS CONTAINS OVER 540 FORMULÆ.

PER 16-FL.OZ.	PER 16-FL.OZ.	PER 16-FL.OZ.	
Aconite leaves.....	5/-	Chestnut leaves.....	3/6
Aconite root.....	6/4	Chirata.....	7/-
Adonis vernalis, Linn.....	11/-	Cinchona aromatic.....	8/-
Agaric (White Agaric).....	12/-	Cinchona.....	6/8
Aloes Compound (for B. P. decoction).....	6/6	Cinchona Comp. (for B. P. tincture).....	6/8
Aloes (for B. P. tincture).....	6/10	Cinchona, detannated.....	6/4
Aloes and Myrrh (for tincture).....	8/4	Cinchona, red.....	6/6
Alterative Compound.....	4/8	Cocn.....	8/4
American Hellebore.....	7/4	Cocillaña.....	18/2
Arbor vite.....	6/4	Colchicum root.....	5/-
Arbor vitae, aqueous.....	4/-	Colchicum seed.....	6/6
Arnica flowers.....	5/4	Colocynth.....	7/6
Arnica root.....	5/8	Condurango.....	11/-
Asafetida.....	7/6	Couium leaves.....	5/-
Bay Rum Essence.....	11/6	Couium fruit.....	6/-
Bearsfoot.....	7/6	Corn-silk.....	6/-
Belladonna leaves.....	6/-	Coto bark.....	15/8
Belladonna root.....	6/8	Cotton root bark.....	4/6
Benzoin Compound (for B. P. tincture).....	8/8	Couch-grass.....	4/10
Berberis Aquifolium.....	11/-	Cramp-bark.....	4/-
Bitter sweet.....	5/-	Cranesbill.....	4/6
Black Cohosh.....	5/8	Cubeb.....	10/8
Black Cohosh Compound.....	5/2	Culver's-root.....	5/2
Black Haw.....	5/8	Damiana.....	9/8
Black Willow bark.....	6/-	Dandelion.....	5/2
Black Willow buds.....	6/-	Dandelion Compound.....	5/4
Bladder-wrack.....	5/6	Dogwood.....	4/4
Blood root.....	5/10	Duboisia leaves.....	14/4
Blue Cohosh.....	4/8	Echinacea.....	14/4
Blue Cohosh Compound.....	5/6	Embelia Ribes.....	10/-
Blue Flag.....	5/6	Ergot.....	9/2
Boldo.....	12/4	Ergot, ethereal.....	9/-
Buchu.....	7/4	Eucalyptus.....	6/2
Buchu Compound.....	7/4	Euphorbia pilulifera, Linn.....	14/4
Buchu and Juniper with Potass. acetate.....	7/4	Foxglove.....	5/-
Buchu and Pureira.....	7/-	Fringe-tree.....	6/-
Buckthorn bark.....	4/4	Gelsemium.....	6/-
Buckthorn berries.....	5/4	Gelsemium, fresh root.....	6/-
Burdock root.....	4/-	Gentian.....	4/-
Burdock seed.....	5/8	Gentian Compound (for B. P. tincture).....	4/6
Butternut.....	4/4	Ginger, soluble (for syrup).....	4/4
Calendula flowers.....	10/4	Goanese Ipecacuanha.....	15/-
Calumba.....	5/2	Golden-seal, colourless.....	4/2
Cumphor Comp. (for B. P. tincture).....	7/4	Golden-seal.....	7/8
Cannda Snake-root.....	4/10	Golden-seal, without alcohol.....	4/8
Canadian Hemp.....	5/6	Grindelia.....	7/2
Cannabis Indica.....	7/4	Grindelia Compound.....	7/8
Capsicum and Myrrh.....	9/-	Guarana.....	19/-
Cardamom Comp. (for B. P. tincture).....	11/8	Huang-nan (concentrated tincture).....	21/8
Caroba leaves.....	12/8	Horse-nettle.....	7/8
Cascara Amarga.....	11/8	Hyoscyamus.....	6/-
Cascara Sagrada.....	11/-	Ilydrangea.....	4/10
Cascara Sagrada (formula of 1887).....	11/-	Ignatia bean.....	9/-
Cascara Sagrada, aromatic.....	5/6	Ipecacuanha.....	17/6
Cedron seed.....	10/9	Ipecac and Senega.....	11/-
Cereus grandiflorus, Mill.....	15/8	Jaborandi.....	9/6
Chekan.....	15/-	Jalap.....	7/8



BRANCH HOUSE, NEW YORK CITY, N.Y., U.S.A.  
90, 92, 94, MAIDEN LANE.



BRANCH HOUSE, KANSAS CITY, MO., U.S.A.

## CONDENSED LIST OF PARKE, DAVIS &amp; CO.'S PREPARATIONS.

# Normal Liquids.

A CLASS OF SUPERIOR ASSAYED FLUID PREPARATIONS, INTRODUCED BY US, ONE CUBIC CENTIMETRE OF EACH BEING EQUIVALENT TO ONE GRAMME OF DRUG OF STANDARD STRENGTH.

According to the U. S. Pharmacopœia, one cubic centimetre of any fluid extract represents one gramme of the drug employed in making it. It is apparent that such preparations will not be of invariable strength since, in the purchase of crude drugs, especially those containing definite active principles, the quality can not be judged by physical indications, with any degree of certainty. An estimation of the active medicinal ingredients is the only true criterion by which the quality of a drug can be measured. Fluid extracts made in the ordinary way must, of course, share in this variability, while our NORMAL LIQUIDS are adjusted to a uniform strength by assay, irrespective of quantity of crude drug required, thereby imparting to them a definite and uniform therapeutic value. A benefit so evident merits attention.

**Formulæ for Tinctures.**—It is obvious that tinctures prepared by diluting NORMAL LIQUIDS with appropriate diluents must necessarily be more reliable than those made from commercial drugs of uncertain quality and identity by the usual methods.

	PER 16-FL. OZ.		PER 16-FL. OZ.		PER 16-FL. OZ.
Aconite root .....	6/10	Colchicum root .....	5/6	Hoscyamus .....	6/6
American Hellebore, <i>see</i> Veratrum .....	7/10	Colchicum seed .....	7/-	Indian Cannabis .....	8/-
<i>Viride</i> .....	7/10	Conium.....	6/6	Ipecac .....	18/10
Belladonna leaves.....	6/8	Digitalis.....	5/6	Mandrake, <i>see</i> Podophyllum .....	5/6
Belladonna root.....	7/-	Ergot.....	10/-	Nux Vomica .....	6/6
Calabar Bean.....	15/-	Foxglove, <i>see</i> Digitalis .....	5/6	Podophyllum .....	5/6
Cannabis Indica, <i>see</i> Indian Cannabis .....	8/-	Gelsemium.....	6/6	Rhubarb .....	10/-
Cinchona .....	9/6	Golden-seal, <i>see</i> Hydrastis .....	8/6	Stramonium leaves .....	5/8
Cinchona red.....	9/6	Guarana .....	19/6	Stramonium seed .....	5/8
Coca.....	9/6	Hydrastis .....	8/6	Veratrum Viride.....	7/10

# Solid Extracts.

We invite exhaustive tests of our solid extracts, as we claim for them the first rank for medicinal value. Analysis has demonstrated the superiority in alkaloidal strength of our narcotic extracts as compared with those of other manufacturers.

Extracts from drugs of determinable strength are accurately regulated by assay and adjusted to a uniform standard. The practical pharmacist will readily appreciate the importance of the object attained by such methods.

## OUR COMPLETE LIST CONTAINS OVER 120 FORMULÆ.

Per 4 oz. Jar.	Per 1 oz. Jar.	Per 4 oz. Jar.	Per 1 oz. Jar.	Per 4 oz. Jar.	
Aconite leaves, assayed .....	4/- 1/3	Cascara Sagrada, 1887, tasteless...	1/8 1/5	Ipecac, assayed.....	7/-
Aconite root, assayed.....	4/- 1/3	Cinchona, Calisaya, assayed.....	8/- 2/3	Jaborandi, assayed .....	8/- 2/3
Aloes .....	2/6 1/1	Clover tops, red.....	3/- 1/-	Jalap.....	4/6 1.4
Alterative Compound.....	3/- 1/-	Coca leaves, assayed.....	8/- 2/3	Jamaica Dogwood .....	9/6 2/4
American Hellebore ( <i>Verat. vir-</i> <i>ide</i> ), assayed.....	3/6 1/1	Colchicum root, assayed.....	3/6 1.1	Kavakava .....	5/6 1/7
Belladonna leaves, assayed.....	8/6 1/1	Conium leaves .....	2/6 1/1	Mandrake .....	3/6 1/1
Belladonna (strictly alc.), assayed	5/- 1/6	Conium fruit, assayed.....	3/- 1/-	Nux Vomica, assayed .....	3/6 1/1
Belladonna root, assayed.....	3/10 1/2	Cottou-root-bark .....	3/10 1/2	Opium, assayed .....	4/6
Berberis Aquifolium .....	4/8 1/5	Cranesbill .....	3/- 1/-	Picil .....	9/- 2/6
Bitter-sweet.....	2/6 1/1	Culver's-root .....	4/- 1/3	Poke-root .....	3/- 1/-
Blackberry root, bark.....	2/- 9/	Damiana .....	5/- 1/6	Prickly Ash bark .....	3/6 1/1
Black Cohosh .....	3/- 1/-	Dandelion .....	1/6 1/8	Rhubarb .....	4/8 1/5
Black Haw .....	8/6 1/1	Dubolsia, assayed .....	..... 10/-	Rhns aromatic .....	9/- 2/6
Bladder-wrack .....	3/- 1/-	Ergot .....	8/- 2/3	Sarsaparilla .....	4/- 1/3
Blood-root .....	3/6 1/1	Eucalyptus .....	3/6 1/1	Sarsaparilla Compound .....	3/- 1/-
Blue Cohosh .....	2/3 1/6	Foxglove .....	2/6 1/1	Saw Palmetto .....	3/10 1/2
Blue Flag .....	8/- 1/-	Foxglove (alcoholic) .....	4/8 1/5	Stillngia .....	3/6 1/1
Buchu .....	4/6 1/4	Gelsemium, assayed .....	3/6 1/1	Stramouini leaves, assayed .....	2/6 1/1
Burdock root .....	2/6 1/1	Gentian .....	1/6 1/8	Stramonium seed, assayed .....	4/- 1/3
Butternut .....	2/6 1/1	Golden-seal, assayed .....	6/6 1/10	Wahoo .....	3/6 1/1
Calabar Bean, assayed .....	6/6	Grindelia robusta .....	3/6 1/1	Witch Hazel .....	2/6 1/1
Cannabis Indica .....	8/6 2/5	Guarana, assayed .....	5/-	Yellow Dock .....	2/6 1/1
Casearia Sagrada .....	4/8 1/5	Hyoscyamus, assayed .....	3/6 1/1	Yerba Santa .....	3/6 1/1
		Iguatia bean, assayed .....	2/6		

\* PLEASE SEND FOR OUR COMPLETE PRICE LIST, POST-FREE ON APPLICATION.

FLUID EXTRACTS ARE ALSO MARKETED  
IN 5 PT. BOTTLES, AND NORMAL LIQUIDS IN  
THE SAME SIZED PACKAGES AS FLUID EXTRACTS.



1 PINT.



1/2 PINT.



1/4 PINT.



1 PINT.

16 OZ.



## CONDENSED LIST OF PARKE, DAVIS &amp; CO.'S PREPARATIONS.

## Concentrations.

These concentrations represent the proximate medicinal principles of the several drugs named, either in a crude powdered form, or isolated in the form of an alkaloid or resin.

The preparations offered in the market under the name of concentrations vary greatly in physical properties as made by different manufacturers. In many instances, through ignorance of the chemistry of the drug, manufacturers have supplied a product nearly or quite inert. We have aimed in our concentrations to present all the active constituents of each drug, excluding, as far as possible, inert matter; and when our preparations differ from those of other manufacturers, we are willing that they should be judged by their therapeutic efficiency.

[SPECIAL PRICES IN BULK.]	PER OZ.	[SPECIAL PRICES IN BULK.]	PER OZ.	[SPECIAL PRICES IN BULK.]	PER OZ.
Aconapellin.....	14/-	Digitalin.....	3/2	Lupulin.....	1/6
Acouithin.....	14/-	Digitallisin.....	3/2	Lycopin.....	2/2
Aletrin.....	1/10	Dioscorein.....	3/6	Macrotin.....	1/8
Alnuin.....	2/2	Euonymin, brown.....	3/10	Menispermin.....	2/4
Apocynin.....	4/2	Euonymin, green.....	3/10	Myricin.....	1/10
Asclepidin.....	2/8	Eupatorin.....	1/10	Phytolaccin.....	2/8
Atropin.....	5/2	Eupnprulin.....	4/4	Podophyllin.....	1/6
Baptisin.....	2/8	Fraserin.....	2/2	Podophyllin, Pharm. Germ.....	2/2
Barosmin.....	3/6	Gelsemin.....	5/2	Podophyllin, soluble.....	1/10
Belladonuin.....	5/2	Gelsemperin.....	5/2	Populin.....	1/10
Berberiu.....	6/10	Geranin.....	1/10	Prunin.....	1/10
Berberine hydrochlorate.....	6/10	Gossypiu.....	5/2	Rhusin.....	2/4
Berberine phosphate.....	14/-	Hamamelein.....	2/1	Sanguinarin.....	2/4
Berberine sulphate, pure crystals.....	14/-	Helonin.....	5/2	Sanguinarine nitrate (pure salt of alka- loid).....	10/6
Cascarin, formula 1887.....	2/8,	Humulin.....	1/6	Sanguinarine sulphate (pure salt of alka- loid).....	12/3
Caulophyllin.....	1/10	Hydrastin.....	5/2	Scutellarin.....	3/6
Cerasin.....	2/2	Hyonigrin.....	6/-	Senecin.....	3/-
Chelouin.....	3/6	Hyoscyammin.....	6/-	Stillingin.....	3/10
Chimaphilin.....	2/8	Inulain.....	3/6	Trilllin.....	2/2
Cimicifugin (Macrotin).....	1/8	Irisin.....	2/2	Vlburnin.....	3/6
Collinsonin.....	4/2	Jalapin.....	3/2	Xanthoxylin.....	3/-
Cornin.....	1/10	Juglandin.....	2/2		
Corydalin.....	2/8	Leptandrin.....	1/6		
Cypripedin.....	5/2	Lobelfin.....	4/4		

SUGAR COATED AND GELATIN COATED PILLS.  
OVIFORM.

The following pills are made entirely by hand, from the purest materials and are coated by a method avoiding the application of any degree of heat which could impair their efficacy.

We direct special attention to the homogeneous character and ready solubility of the mass.

Some of our pills are intentionally made of a firm consistence in order to insure their permanency, but this condition does not impair the solubility of the mass, as the excipient employed is readily dissolved by the gastric juice.

For superiority of finish and uniformity of coating, our pills are unexcelled. Particular attention is directed to the absence of the unsightly needle holes in our gelatin-coated pills, and the perfect protection of the mass from deleterious atmospheric influences, secured by the employment of a new process of manufacturing, which enables us to completely envelop the pill in a gelatin coating.

The formula in each instance is strictly followed, irrespective of cost, and the entire process conducted under scientific management and by improved methods.

Particular care is taken to ensure the preservation of the drug.

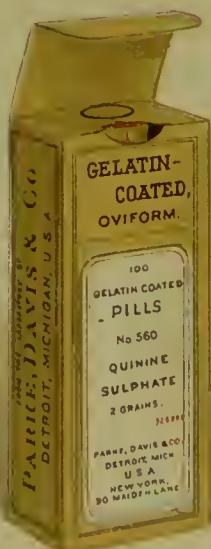
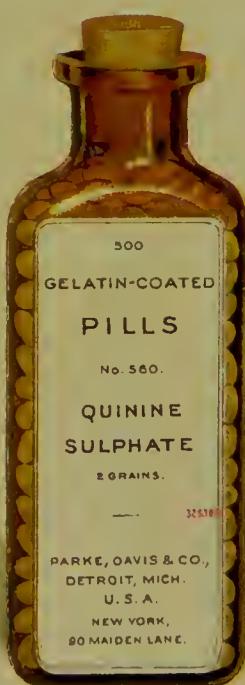
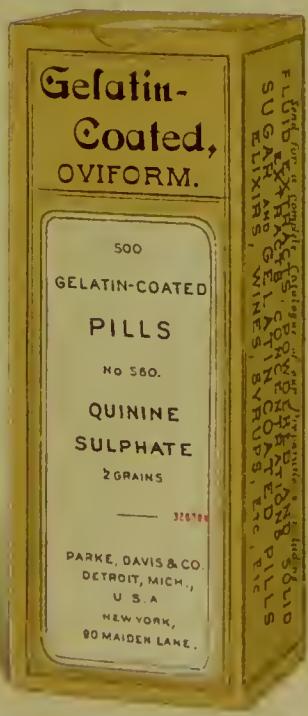
They are put up for the trade in bottles of 100 and 500 pills each, excepting a few pills of Rare Alkaloids, which are put up in bottles of 25 each, as noted in each instance. Oviform Gelatin-coated Pills will be supplied, if not otherwise specified. Round Pills can be supplied when desired.

We also manufacture a line of *Enteric Pills*, i.e., pills so coated as to pass the stomach intact and be dissolved in the duodenum or intestinal tract.

*Special quotations for pills of special formulae or for stock pills in bulk.*

## OUR COMPLETE LIST CONTAINS OVER 800 FORMULÆ.

A Per 100.	B Per 500.	A Per 100.	B Per 500.	A Per 100.	B Per 500.
Acetanilid, 4 grs.....	1/4 6/2	Ammonium chloride, 3 grs. (s.-c. only).....	1/- 4/6	Aphrodisiac Compound.....	3/- 14/6
Aconite Ext., 1-2 gr. (of the leaves).....	10/ 3/8	Ammonium picrate, 1-2 gr.....	1/2 5/4	Apocynum Extract, 2 grs.....	1/4 6/2
Aconitine, cryst., 1-500 gr.....	10/ 3/8	Ammonium valerenate, 1 gr. (s.-c. only).....	1/4 6/2	Arsenic sulphide, 1-100 gr.....	8/ 2/10
Aloes.....	10/ 3/8	Anodyne.....	1/6 7/-	Arsenous acid, 1-100 gr.....	8/ 2/10
Aloes and Asafoetida, B. P. (s.-c. only).....	1/- 4/6	Anthelmintic.....	1/10 8/8	Asafoetida, 3 grs.....	10/ 3/8
Aloes, Barbadoes, B. P. (s.-c. only).....	1/- 4/6	Anthemis Extract, 2 grs.....	1/1 6/2	Asafoetida Comp., B. P. (s.-c. only).....	1/- 4/6
Aloes and Iron, B. P. (s.-c. only).....	1/- 4/6	Anti-Bilious.....	1/1 6/2	Asafoetida and Iron.....	10/ 3/8
Aloes and Myrrh, B. P. (s.-c. only).....	10/ 3/8	Anti-Chill.....	1/1 6/2	Asafoetida and Nux Vomica.....	1/2 5/4
Aloes, Myrrh and Iron.....	10/ 2/8	Anti-Chill.....	1/1 6/2	Asafoetida and Rhubarb.....	1/4 6/2
Aloes and Nux Vomica.....	1/- 4/6	Anti-Constipation, Brundage's.....	1/4 6/2	Atropine, 1-100 gr.....	1/- 4/6
Aloes, Nux Vomica & Belladonna.....	1/2 5/4	Anti-Dyspeptic.....	1/2 5/4	Belladonna Extract, 1-4 gr.....	10/ 3/8
Aloes, Soc., B. P. (s.-c. only).....	10/ 3/8	Anti-Epileptic.....	4/- 19/6	Berberine hydrochlorate, 1 gr.....	3/2 15/4
Aloin, 1-4 gr.....	10/ 3/8	Antimony Comp. (Plummer's Pills).....	1/- 4/6	Berberine sulphate, 2 grs.....	5/- 24/6
Aloin and Strychnine.....	1/4 6/2	Anti-Malaria, McCaw's.....	2/2 10/4	Berberine and Podophyllin.....	1/8 7/10
Aloin, Strychnine and Bellad., B. I. 1/4 6/2	1/4 6/2	Anti-Periode.....	1/1 6/2	Berberis Aquifolium Ext., 3 grs.....	1/6 7/
Ammonium bromide, 1 gr. (s.-c. only).....	1/6 7/-	Anti-Syphilitic (s.-c. only).....	2/2 10/4	Bismuth and Ignatia.....	2/6 12/-
		Aperient.....	1/8 7/10	Bismuth and Nux Vomica.....	2/8 12/10
				Bismuth subcarbonate, 3 grs.....	1/10 8/8



## CONDENSED LIST OF PARKE, DAVIS &amp; CO.'S PREPARATIONS.

## S. C. AND G. C. PILLS.—CONTINUED.

A Per 100.	B Per 500.	A Per 100.	B Per 500.	A Per 100.	B Per 500.
Bismuth subnitrate, 2 grs.	1/4 6/2	Headache.	1/8 7/10	Phosphorus and Digitalis Comp.	1/4 6/2
Black Ilaw Extract, 3 grs.	1/2 5/8	Heliolum, 1-8 gr.	1/- 4/6	Phosphorus, Digitalis and Hyoscyamus	1/8 7/10
Black Hellebore Extract, 1 gr.	1/4 6/2	Hemlock Conip. (Coulum), B. P.	(s.c. only) 1/4 6/2	Phosphorus, Digitalis and Irou.	1/6 7/-
Blue Mass, 3 grs.	/8 2/10	Hepatica.	1/6 7/-	Phosphorus and Irou.	1/- 4/6
Blue Mass Compoud.	1/6 7/-	Hydrastin (concentration), 1 gr.	2/4 11/2	Phosphorus, Irou and Quinine.	1/10 8/8
Caffeine citrate, 1 gr.	1/4 6/2	Hyoscyanine hydrobromate, 1-400 gr.	1/4 1/1	Phosphorus, Irou, Quinine and Strychnine.	1/10 8/8
Calabar Bean Extract, 1-12 gr.	1/2 5/4	(s.c. only), per bottle of 25, /6	1/4	Phosphorus, Morphine and Zinc valerianate.	3/1 16/2
Calcium sulphide, 1-4 gr.	1/- 4/6	Hyoscyanine Extract, 1-2 gr.	1/- 4/6	Phosphorus, Nux Vomica.	/10 8/8
Calisaya Alkaloids.	1/6 7/-	Ichthyol, 1-12 grs.	2/6 12/-	Phosphorus, Nux Vom. and Damiana (Aphrodisiac).	3/4 16/2
Calomel, 2 grs.	/10 3/8	Ignatia annara Extract, 1-2 gr.	1/2 5/4	Phosphorus, Nux Vomica and Iron	1/- 4/6
Calomel and Ext. Colocynth Co.	1/6 7/-	Intestinal Antiseptic.	1/4 6/2	Phosphorus, Nux Vomica, Iron and Quinine.	1/10 8/8
Calomel and Oplum.	1/8 7/10	Iodoform, 1 gr.	2/- 9/6	Phosphorus, Opium and Digitalis.	1/8 7/10
Calomel and Rhubarb.	1/4 6/2	Iodoform and Iron.	2/4 11/2	Phosphorus and Quinidine.	1/8 7/10
Camphor Compound.	1/8 7/10	Iodoform, Iron and Quinidine.	3/- 14/6	Phosphorus, Quinidine, Aloes and Nux Vomica.	2/- 9/6
Camphor and Hyoscyamus.	1/- 4/6	Ipecac Extract, 1-4 gr.	1/- 4/6	Phosphorus, Quinine and Digitalis Compound.	1/10 8/8
Camphor monobromated, 2 grs.	2/6 12/-	Ipecac and Opium, 1 gr.	1/8 7/10	Phosphorus, Quinine and Nux Vom.	1/10 8/8
Camphor and Opium.	1/8 7/10	Ipecacuanha with Squill, B. P.	1/- 4/6	Phosphorus and Strychnine.	1/3 7/-
Camphor, Oplum & Hyoscyamus.	1/4 6/2	Irisin, 1-2 gr.	1/4 6/2	Phosphorus, Strychnine and Iron.	1/8 7/10
Camphor, Oplum & Lead Acetate.	1/8 7/10	Irisin Compound and Hyoscyamus (g.c. only).	1/6 7/-	Phosphorus, Zinc and Strychnine.	1/8 7/10
Camphor, Oplum and Tannin.	1/2 5/4	Iron and Aloes.	1/- 4/6	Phosphorus, Zinc and Valerian.	1/3 7/-
Camphor, Valerian & Hyoscyamus.	1/2 5/4	Iron bromide, 1 gr.	1/6 7/-	Pilocarpine hydrochlorate, 1-16 gr.	...
Cannabis Indica Extract, 1-2 gr.	1/10 8/8	Iron carbonate, B. P. (s.c. only).	8/20	Pilocarpine nitrate, 1-16 gr.	3/4 16/2
Capsicum, 1 gr.	1/2 5/4	Iron citrate, 2 grs.	1/- 4/6	Podophyllin, 1-4 gr.	3/4 16/2
Cascara Sagrada Extract, 2 grs.	1/4 6/2	Iron and Strychnine citrates.	1/4 6/2	Podophyllin and Belladonna.	1/6 7/-
Cascara Sagrada, and Nux Vomica and Belladonna.	2/- 9/6	Iron ferrocyanide, 3 grs.	1/- 4/6	Podophyllin and Blue.	1/- 4/6
Catarrh, Hager's.	1/6 7/-	Iron hydrogenu (Quevenne), 2 gr.	1/4 6/2	Podophyllin and Leptandrin.	1/6 7/-
Cathartic Comp., Improved.	/10 3/8	Iron iodide, 1 gr., B. P.	1/2 5/4	Podophyllum Extract 1 gr.	1/2 5/4
Cathartic Comp., Vegetable.	1/- 4/6	Iron iodide and Quinine.	1/8 7/10	Postpartum, Dr. Fordyce Barker's 2/2 10/4	
Caulophylin, 1-8 gr.	/10 3/8	Iron lactate, 1 gr.	1/- 4/6	Potassium brom., 5 grs. (s.c. only)	2/6 12/-
Cerium oxalate, 1 gr.	2/6 12/-	Iron and Manganese.	1/6 7/-	Potassium iodide, 5 grs. (s.c. only)	2/10 13/8
Chalybeate C imp., Imp., Jarvis'.	1/- 4/6	Iron phosphate (ferrous), 2 grs.	1/4 6/2	Potassium permanganate, 2 grs. (s.c. only).	2/6 12/-
Charcoal, willow, 3 grs.	1/2 6/4	Iron proto-carbonate (Vallet), 3 gr.	10/3/8	Quassia Extract, 1 gr.	1/10 8/8
Chimaphila Extract, 3 grs.	1/6 7/-	Iron pyrophosphate, 1 gr.	10/3/8	Quinidine and Aloes.	2/- 9/6
Cholagogue.	1/2 5/4	Iron and Potassium tartrate, 2 grs.	1/4 6/2	Quinidine bisulphate, 2 grs.	1/- 4/6
Cimicifugin, 1 gr.	1/- 4/6	Iron, Quassia and Nux Vomica.	1/6 7/-	Quinidine bisulphate and Capsicum.	2/2 10/4
Cinchonidine sulphate, 2 grs.	/10 3/8	Iron and Quinine citrate, 2 grs.	1/- 4/6	Quinidine and Blue Mass.	1/8 7/10
Coca Extract, 3 grs.	2/- 9/6	Iron, Quinine and Strychnine.	1/10 8/8	Quinidine bromide, 2 grs.	2/6 12/-
Cocaine hydrochlorate, 1-8 gr. (g.c. only).	2/2 10/4	Iron Sulphate, exsic., 2 grs.	10/3/8	Quinidine and Capsicum.	2/- 9/6
Codeine, 1-4 gr.	3/4 16/2	Iron valerianate, 1 gr.	1/8 7/10	Quinidine Coup. and Ext. Dandelion.	2/- 9/6
Colchicine, 1-60 gr. (g.c. only).	... per bottle of 25 each, /8.	Jaborandi Extract, 3 grs.	1/8 7/10	Quinidine Coup. and Strychnine.	2/- 9/6
Colchicum Extract, 1-2 gr.	1/4 6/2	Jalapin, 1 gr.	2/- 9/6	Quinidine, Digitalis, Ipecac & Opium, Hein's.	2/8 12/10
Colocynth Comp., B.P. (s.c. only)	1/4 6/2	Jamaica Logwood Extract, 2 grs.	2/8 12/10	Quinidine and Ext. Belladonna.	1/8 7/10
Colocynth Comp., Belladonna and Nux Vomica.	2/- 9/6	Kermes mineral, 1-4 gr.	1/10 8/8	Quinidine, Ipecac and Opium.	4/2 20/4
Colocynth Comp., Blue Mass and Ipecac.	1/6 7/-	Krameria Extract, 2 grs.	1/4 6/2	Quinidine, Iron and Strychnine.	1/8 7/10
Colocynth and Henbane, B.P. (s.c. only).	1/6 7/-	Lactated Pepsin and Bismuth.	3/4 16/2	Quinidine, Iron and Zinc valerenates.	3/2 15/4
Colocynth Comp., Hyoscyamus & Podophyllin, B "A".	1/10 8/8	Laxative.	1/2 5/4	Quinidine hydrochlorate, 2 grs. (g.c. only).	2/2 10/4
Colocynth Comp., and Ipecac.	1/6 7/-	Lead and Opium, B. P. (s.c. only).	1/8 7/10	Quinidine and Strychnine.	1/8 7/10
Colocynth Comp. and Podophyllin Conium Ext., 1-2 gr. (of the fruit)	1/6 7/-	Leptandrin, 1-2 gr.	10/3/8	Quinidine sulphate, 2 grs.	1/- 4/6
Copaiba, 3 grs.	1/- 4/6	Liver, Improved.	10/3/8	Quinidine valerenate, 1-2 gr.	1/2 5/4
Copaiba and Oleoresin Cubeb.	1/10 8/8	Manganese binoxide, 2 grs.	2/4 11/2	Rheumatic.	1/10 8/8
Copaiba, Cubeb and Iron citrate.	1/10 8/8	Magnesia calcined, 2 grs.	1/- 4/6	Rhubarb.	1/4 6/2
Corrosive Sublimate, 1-100 gr.	/8 2/10	Magnesia and Rhubarb.	1/- 4/6	Rhubarb and Blue.	1/4 6/2
Cubeb Extract, 2 grs.	2/8 12/10	Mercurial pill, 3 grs., B. P.	8/2/10	Rhubarb Comp., B. P. (s.c. only).	1/4 6/2
Cubeb Ext., Rhatany and Iron.	2/6 12/10	Mercury biniodide, 1-8 gr.	8/2/10	Rhubarb and Iron.	1/8 7/10
Cypr. pedunc. Extract, 2 grs.	1/6 7/-	Mercury protiodide, 1-4 gr.	8/2/10	Salicin, 2 grs.	2/6 12/-
Damiana Extract, 3 grs.	1/10 8/8	Mercury protiodide and Opium.	1/8 7/10	Salicylic acid, 2-12 grs.	1/8 7/10
Dandelion Extract, 3 grs.	1/6 7/-	Mercury subchloride Comp., B. P. (s.c. only).	1/2 5/4	Saline & Onalybeat Tonic, Flint's.	1/4 6/2
Dandelion and Leptaudrin.	1/- 4/6	Morphine acetate, 1-8 gr.	1/2 5/4	Sandalwood Compound.	2/4 11/2
Diaphoretic.	1/6 7/-	Morphine and Atropine.	2/- 9/6	Sanguinaria Extract, 1-2 gr.	1/4 6/2
Diarrhoea Pellets.	/10 3/8	Morphine hydrochlorate, 1-8 gr.	1/2 5/4	Sauvouin, 1 gr.	1/8 7/10
Digestive Pellets, Hager's.	1/8 7/10	Morphine sulphate, 1-4 gr.	1/4 6/2	Sautoulin and Calomel.	1/10 8/8
Digitalin, pure, 1-60 gr.	1/4 6/2	Morphine sulphate & belladonna, B 1.	2/- 9/6	Santonin and Podophyllin.	1/4 6/2
Digitalis Extract, 1-2 gr.	1/2 5/4	Morphine valeriate, 1-8 gr.	1/8 7/10	Sarsaparilla Extract, 3 grs.	1/6 7/2
Dinner, Lady Webster's.	/10 3/8	Neuralgic Idiopathic, Brown-Sequard's.	8/6 17/-	Savine Extract, 1 gr.	1/1 6/2
Dipsomnia, Mann's.	2/- 9/6	Night Sweat.	1/10 8/8	Scammony Co., B. P. (s.c. only).	1/4 6/2
Diuretic.	1/2 5/4	Nitroglycerin, 1-100 gr.	1/8 7/10	Sedative.	1/8 7/10
Dysentery.	1/- 4/6	Nux Vomica Extract, 1-4 gr.	8/2/10	Senna Extract, 2 grs.	1/4 6/2
Dysmenorrhœa, Alvord's.	2/6 12/-	Opium, U. S. P., 1 gr.	1/4 6/2	Silver iodide, 1-4 gr.	1/6 7/-
Dyspepsia.	1/6 7/-	Opium Extract, 1-2 gr.	1/10 8/8	Silver nitrate, 1-4 gr. (g.c. only).	1/4 6/2
Eccoprotic.	1/4 6/2	Opium and Lead acetate.	1/4 6/2	Soap Comp., B. P. (s.c. only).	1/2 5/4
Elaterium (Clutterbuck's), 1-8 gr.	1/10 8/8	Ox Gall.	1/2 5/4	Sodium bicarbonate, 1 grs.	1/- 4/6
Emmenagogue, Improved.	2/4 11/2	Ox Gall Comp., Andrew's.	1/10 8/8	Squill Comp., B. P. (s.c. only).	1/2 5/4
Ergotin (Bonjean), 2 grs.	3/10 8/8	Ox Gall and Pepsin, Dr. Armor's.	2/8 12/10	Stillingia, 1 gr.	1/2 5/4
Ergotin & Cannabis Indica, B "A"	3/8 17/10	Pepsin and Bismuth.	2/6 12/-	Stramonium Extract, 1-2 gr. (of the seed).	1/2 5/4
Eucalyptus Extract, 2 grs.	1/4 6/2	Pepsin, Bismuth and Strychnine, B 1 (g.c. only).	4/6 22/-	Strophanthus (powd. seed), 1-4 gr.	3/4 16/2
Female Hooper's.	/8 2/10	Pepsin and Iron by hydrogen.	1/10 8/8	Strophanthus and Irou.	3/4 16/2
Ferruginous, Blaud's, 3 grs.	10/3/8	Pepsin and Iron iodide.	2/6 12/-	Strychnine, 1-60 gr.	8/2/10
Ferruginous, Blaud's, 5 grs.	1/- 4/6	Phosphorus, 1-30 gr., B. P.	1/- 4/6	Strychnine, 1-40 gr. (g.c. only).	8/2/10
Fucus vesiculosus Extract, 3 grs.	1/8 7/10	Phosphorus and Aconite.	10/3/8		
Ganiboge Comp., B. P. (s.c. only)	1/- 4/6	Phosphorus, Aloes, Iron & Strychn.	1/6 7/-		
Gelsempirin, 1-8 gr.	1/- 4/6	Phosphorus, Aloes & Nux Vomica.	1/- 4/6		
Gentian Extract, 2 grs.	1/- 4/6	Phosphorus and Belladonna.	10/3/8		
Gonorrhœa.	1/- 4/6	Phosphorus and Cannabis Indica.	1/4 6/2		
Grindelia robusta Extract, 3 grs.	1/8 7/10	Phosphorus and Cantharides Co.	1/6 7/-		
Guarana Extract, 3 grs.	5/- 21/-				

PLEASE SEND FOR OUR COMPLETE PRICE LIST, POST-FREE ON APPLICATION.



WARBURG'S TINCTURE IS  
FINISHED IN SAME SIZED  
PACKAGES AS CHLOR ANODYNE.



GLYCERIN SUPPOSITORIES ARE PUT  
UP IN BOTTLES CONTAINING 1 DOZEN  
AND ½ DOZEN.



## CONDENSED LIST OF PARKE, DAVIS &amp; CO.'S PREPARATIONS.

## S. C. AND G. C. PILLS.—CONCLUDED.

A Per	B Per	A Per	B Per	A Per	B Per
100.	500.	100.	500.	100.	500.
100.	500.	100.	500.	100.	500.
8/	2/10	Terpin hydrate, 2 grs.....	1/4 6/2	Yerba santa Extract, 3 grs.....	1/8 7/10
1/2	5/4	Tonic, Aiken's.....	1/10 8/8	Zinc Oxide, 1 gr.....	1/4 6/2
3/4	16/2	Triplex.....	1/4 6/2	Zinc phosphide, 1-8 gr.....	1/6 7/-
1/10	8/8	Valerian Extract, 2 grs.....	1/10 8/8	Zinc Phosphide and Nux Vomica.....	1/8 7/10
8/4	16/2	Veratrine, 1-32 gr.....	1/- 4/6	Zinc valerianate, 1 gr.....	2/- 9/6
2/-	9/6	Veratrum viride Extract, 1-4 gr.....	1/- 4/6		
8/	2/10	Warburg's Tincture, B "A".....	4/- 19/6		

## PINK GRANULES

(SUGAR COATED.)

These granules are intended to supply the needs of physicians in such cases as require minute or frequently repeated doses. This diminishes the risk there might otherwise be of giving to a child an overdose of some powerful remedy. At the same time, their distinctive colour renders them attractive to the class of patients for which they are intended. For prices and formulæ, see our general list.

## Compressed Tablets.

Put up in bottles of 1000 ("M"), in bottles of 500 ("D"), and in bottles of 100 ("C").

We furnish to order any other desired formula, the nature and quantity of which will permit of being presented in this form. Additions will constantly be made as demand may necessitate.

## OUR COMPLETE LIST COMPRISES OVER 200 FORMULÆ.

M Per	C Per	M Per	C Per	M Per	C Per
1000	100	1000	100	1000	100
6/2	/10	Damiana Compound.....	10/3 1/3	Pepsin and Bismuth B "A".....	13/9 1/7
7/-	/11	Dermatol (Bismuth subgallate).....	29/6 3/2	Pepsin, Iismuth and Charcoal.....	20/6 2/3
4/6	/8	Diarrhoea.....	11/8 1/5	Pepsin Sacchar., U.S.P., 1890, 5grs.	7/6 /11
8/8	1/1	Digestive, B "A".....	17/- 1/11	Phosphate Compound (Nutritive).....	10/3 1/3
8/3	1/-	Dipsomania.....	11/8 1/5	Pilus Alba Compound.....	7/- /11
27/6	8/-	Diuretic.....	4/10 /9	Potassium iodide, 5 grs.....	18/10 2/2
12/-	1/5	Dover's Powder, 5 grs.....	8/8 1/1	Potassium nitrate, 5 grs.....	2/10 /6
6/2	/10	Emmenagogue, Improved.....	9/8 1/2	Potassium Permanganate, 2 grs.....	4/10 /9
17/8	2/-	Ergotin Compound.....	11/8 1/5	Quinine arsenate, 1-3 gr.....	7/- /11
7/6	/11	Expectorant ("Tonic").....	11/8 1/5	Quinine, Iron and Zinc valerianates (half strength) (sugar-coated).....	13/9 1/7
4/2	/8	Ferrous carbonate (Blaud's) 5 grs. ....	5/10 /10	Rheumatic, No. 2.....	8/3 1/7
10/3	1/3	Ferrous Lactate Comp. (Dr. S. W. Mitchell).....	10/3 1/3	Rhubarb and Soda.....	3/6 /7
17/-	1/11	Ferrous Lactate and Cinchonine Compound.....	5/2 /9	Salicin, 5 grs.....	12/- 1/5
4/2	/8	Four Chlorides (University Hosp. Pharm).....	9/8 1/2	Salicylic acid and Morphine B 1.....	10/- 1/3
12/-	1/6	Guaiac, 2 grs.....	8/10 /7	Saline & Chalybeate Tonic, Flint's (sugar-coated, brown).....	11/8 1/5
7/6	/11	Guaiac and Hydrastis Compound (Throat).....	7/- /11	Saline Tonic (Laxative).....	7/- /11
7/-	/11	Heart Tonic (Cactus grandiflor. Co.).....	17/- 1/11	Raw Palmetto Compound.....	10/3 1/3
14/10	1/8	Hydрастine Compound.....	10/3 1/3	Sedative (Dr. B. F. Baer).....	10/3 1/3
7/6	/11	Hypophosphites and Quinine Com- pound without Strychnine.....	16/6 1/10	Sedative Compound.....	11/8 1/5
18/4	1/10	Hypophosphites and Quinine Com- pound with Strychnine.....	17/- 1/11	Senega Compound.....	7/- /11
5/6	/9	Hypophosphites and Quinine Com- pound with Creosote.....	18/3 2/1	Sodium brc mide, 5 grs.....	4/6 /8
10/3	1/3	Intestinal Tonic.....	12/6 1/6	Sodium salicylate, 5 grs.....	10/10 1/4
10/3	1/3	Krameria Compound.....	7/- /11	Sodium sulphite Compound.....	10/3 1/3
5/2	/9	Lupuliu and Bromide Comp.....	10/8 1/3	Sodium sulphite Compound (Anti- permeut).....	7/- /11
6/6	/10	Merceric Iodide .....	10/3 1/3	Sodium sulphite Compound with Pepsin.....	10/3 1/3
4/2	/8	Merceric oxide.....	7/- /11	Sulphur, 5 grs.....	8/- /6
7/-	/11	Migraine.....	8/8 1/1	Sulphur Compound.....	5/2 /9
8/3	1/-	Mixed Treatment.....	10/10 1/4	Sulphur and Cream of Tartar.....	8/6 /7
8/8	1/1	Nasal.....	11/8 1/5	Sumbul Compund (Goddell's).....	13/9 1/7
5/10	/10	Nausea, B 2.....	17/- 1/11	Sun Cholera.....	8/3 1/7
5/10	/10	Neurngic.....	18/9 1/7	Syphilic B "A".....	14/6 1/8
2/10	/6	Neuralgic Headache (Dr. Myers)....	7/6 /11	Tonic (Aiken's).....	13/9 1/7
3/6	/7	Nux Vomica and Ignatia Comp....	10/3 1/3	Tonic Vegetable.....	4/10 /9
10/3	1/3	Opium, Camphor and Tannin (s.-c.)	8/3 1/-	Trifolium Compound (Alterative).....	10/8 1/3
12/-	1/5	Opium and Hyoscyamus.....	8/3 1/-	Triple Bromides .....	4/10 /9
13/9	1/7	Ox Gall Compound (Gastric Dys- pepsia).....	18/9 1/7	Uterine Astringent and Antiseptic	8/3 1/-
18/9	2/1	Ox Gall and Ginger.....	4/10 /9	Vilburnum Compound (Uterine Tonic) .....	15/3 1/9
13/9	1/7	Ox Gall, Pepsln and Pancreatin..	16/- 1/10	Voice .....	8/3 1/7
10/3	1/3			Zinc sulphocarbonate, 5 grs.....	8/3 1/7
8/8	1/1				
18/9	1/7				



ELIXIRS, WINES AND SYRUPS ARE ALSO FINISHED IN  $\frac{1}{2}$  GALLON BOTTLES.



## CONDENSED LIST OF PARKE, DAVIS &amp; CO.'S PREPARATIONS.

## TABLET TRITURATES.

Particular attention is directed to the following condensed list of Tablet Triturates. Each tablet bears its number, which identifies the formula independent of the label on the bottle, so that if it should become separated from the container in any way it may be recognized and used with the certainty that its composition corresponds to that of the same number in our complete list.

Only the purest materials are used in the manufacture of these triturates, while all processes are the best approved, thus securing the highest standards of permanency, solubility, and therapeutic efficiency.

Other formulas we are prepared to supply upon special order, provided the nature of the material will permit of presentation in this form, and the number required will enable us to manufacture to order at a satisfactory price. Correspondence in this regard is solicited.

## OUR COMPLETE LIST CONTAINS OVER 550 FORMULAE.

M or D Per 1000.	C Per 100.	M or D Per 1000.	C Per 100.	M or D Per 1000.	C Per 100.
Acetanilid, 1 gr.....	3/- /6	Cathartic Comp. (U. S. P. mass), 1 gr .....	3/6 /7	Lobelia, tincture, 1 min .....	3/- /6
Aconite, fl ext., 1-2 min .....	3/- /6	Cathartic Comp., Vegetable, 1 gr .....	3/6 /7	Lupulin, fl ext., 1 min .....	3/6 /7
Acouite, tincture, 1 min .....	3/- /6	Caulophylin, 1-10 gr .....	3/6 /7	Manganese binoxide, 1 gr .....	3/- /6
Aconitine, crystals, 1-200 gr .....	7/- /11	Cerium oxalate, 1 gr .....	4/2 /8	Mercury biniodide, 1-25 gr .....	3/- /6
Agaricia, 1-20 gr.....	7/- /11	Cinnifinga, tincture, 1 min .....	3/- /6	Mercury with chalk, 1-5 gr .....	3/- /6
Aloin, 1-4 gr.....	3/- /6	Coca, fl. ext., 1 min .....	3/6 /7	Mercury with chalk and Dover's Powder.....	3/6 /7
Aloin and Belladonna Comp., B "A".....	3/6 /7	Cocaine hydrobromate, 1-8 .....	14/0 1/8	Mercury protiodide, 1-8 gr .....	3/- /6
Aloin, Belladonna and Nux Vomica.....	3/6 /7	Cocaine hydrochlorate, 1-16 gr .....	8/8 1/1	Mercury protiodide and Opium .....	3/6 /7
Aloin, Belladonna and Podophyllin .....	3/6 /7	Codine, 1-4 gr .....	20/6 2/3	Mercuric oxide, yellow, 1-200 gr .....	3/- /6
Aloin, Belladonna, Podophyllin and Nux Vomica.....	3/6 /7	Colchicine, 1-100 gr .....	5/2 /9	Morphine acetate, 1-8 gr .....	7/9 1/-
Aloin, Belladonna, Strychnine and Cascara Sagrada .....	3/6 /7	Colchicum, fl. ext., 1 min .....	3/- /6	Morphine hydrochlorate, 1-8 gr .....	7- /11
Aloin, Belladonna, Strychnine and Ipecac .....	3/6 /7	Colchicum, tincture, 1 mila .....	3/- /6	Morphine sulphate, 1-4 gr .....	11/4 1/4
Aloin Comp., B "A".....	3/6 /7	Colocynth Comp., extract, 1-4 gr .....	3/- /6	Morphine and Aconite .....	4/4 /9
Alum, 1-5 gr.....	3/- /6	Conine hydrobromate, 1-10 gr .....	12/- 1/5	Morphine and Atropine, R "D" .....	12/- 1/5
Ammonium chloride, 1-2 gr.....	3/- /6	Conine hydrochlorate, 1-10 gr .....	20/6 2/3	Nerve Tonic, No. 1 (Dr Westbrook) .....	6/2 /10
Ammonium chloride Comp. ....	3/- /6	Conium Comp .....	3/6 /7	Nenralig (Dr. J. H. Kenyon) .....	5/2 /9
Ammonium chloride and Codeine Comp. ....	5/2 /9	Conium, tincture, 1 min .....	3/- /6	Nitroglycerin, 1-100 gr .....	3/- /6
Ammonium chloride and Henbane Comp. ....	3/6 /7	Convaliamarin, 1-50 gr .....	7/- /11	Nitroglycerin Comp. (Dr. Da Costa) .....	7/- /11
Anthony Comp. (Plummer's), 1-10 gr .....	3/6 /7	Copper arsenite, 1-100 gr .....	3/- /6	Nux Vomica, powdered, 1-4 gr .....	8/- /6
Antiseptic Tablets, No. 180....Net.	5/3 /8	Copper and Opium .....	3/6 /7	Nux Vomica, extract, 1-4 gr .....	3/- /6
Antiseptic Tablets, R "B" ....Net.	11/8 1/9	Creosote, Beechwood, 1-10 gr .....	3/- /6	Nux Vomica and Pepsin (Dr. Skiff) .....	3/6 /7
Apomorphone hydrochlorate, 1-100 gr .....	5/2 /9	Cubeb, fl. ext., 1 min .....	4/4 /8	Opium, powdered, 1-4 gr .....	3/- /6
Arsenic bromide, 1-100 gr .....	3/- /6	Damiana, fl. ext., 1 min .....	4/4 /8	Opium, tincture, assayed, 2 mins .....	4/4 /8
Arsenic iodide, 1-50 gr.....	3/- /6	Diarrhoea.....	4/10 /9	Opium, camphorated, tincture, 5 mins .....	4/4 /8
Arsenic sulphide, 1-100 gr .....	3/- /6	Digitalis, pure, 1-100 gr .....	4/2 /8	Opium and Lead acetate .....	5/2 /9
Arsenous acid, 1-100 gr.....	3/- /6	Digitalis, fl. ext., 1 min .....	3/- /6	Ox Gall, pure, 1 gr .....	3/8 /7
Atropine sulphate, 1-100 gr.....	3/10 /7	Digitalis, tincture, 1 min .....	3/- /6	Paregoric Comp. ....	4/8 /9
Baptisia, tincture, 1 min .....	3/- /6	Digitalis and Strophantns .....	7/- /11	Pepsin Aseptic, 1 gr .....	9/6 1/2
Belladonna leaves, fl. ext., 1 min .....	3/- /6	Dover's Powder, 1 gr .....	3/- /6	Pepsin Lactated, 1 gr .....	5/2 /9
Belladonna leaves, extract, 1-4 gr .....	3/- /6	Dyspeptic (Dr. E. B. Haworth) .....	4/10 /9	Pepsin Saccharated, 1 gr .....	4/4 /8
Belladonna lvs., tincture, 1 min .....	3/- /6	Elaterin, 1-20 gr .....	18/9 2/1	Pepsin and Pancreatin .....	12/10 1/6
Benzoic acid, 1-4 gr.....	3/- /6	Elatierium (Clutterbuck), 1-8 gr .....	10/3 1/3	Physostigmine salicylate, 1-100 gr .....	14/0 1/8
Bismuth subcarbonate, 2 grs .....	7/- /11	Ergot, extract, 1 gr .....	8/8 1/1	Physostigmine sulphate, 1-100 gr .....	14/6 1/8
Bismuth subnitrate, 2 grs .....	6/- /10	Ergot, fl. ext., 1 min .....	3/6 /7	Picrotoxin and Belladonna .....	9/4 1/2
Bismuth and Calomel Comp. ....	5/2 /9	Ergotin (Boujean), 1-4 gr .....	4/4 /8	Pilocarpine hydrochlorate, 1-10 gr .....	48/- 5/-
Bismuth and Cerium oxalate. ....	7/- /11	Eucaalyptus, fl. ext., 1 min .....	3/6 /7	Pilocarpine nitrate, 1-10 gr .....	48/- 5/-
Bismuth Compound .....	5/2 /9	Enonymia brown, 1-4 gr .....	3/6 /7	Podophyllin, 1-4 gr .....	3/- /6
Blood root, tincture, 1 min .....	3/- /6	Fever .....	4/10 /9	Potassium arsenate, 1-20 gr .....	3/- /6
Blue mass, 1 gr.....	3/6 /7	Fever (Dr. J. H. Kenyon) .....	5/2 /9	Pulsatilla, tincture, 1 min .....	3/- /6
Blue mass Comp. ....	4/4 /8	Gallic acid, 1 gr .....	3/6 /7	Quinine bisulphate, 1-2 gr .....	4/4 /8
Boric acid, 1-2 gr.....	3/- /6	Gelsemium, tincture, 1 minim .....	3/- /6	Quinine sulphate, 1-2 gr .....	4/4 /8
Brown mixture, 60 minims equiva- lent .....	4/4 /8	Gelsemperin, 1-8 gr .....	4/4 /8	Rennin, 1 gr .....	17/- 1/11
Bryonia, tincture, 1 min .....	3/- /6	Hydrastin, concentration, 1-20 gr .....	5/2 /9	Rhinitis (half strength: Dr. Lin- coit) .....	5/10 /10
Caffeine, 1 gr.....	11/- 1/4	Hydrastin, Comp. ....	8/3 1/-	Rhubarb, fl. ext., 1 min .....	8/6 /7
Caffeine citrate, 1-2 gr.....	7/- /11	Hydrastin, tincture, 1 min .....	3/- /6	Rhubarb Comp., 1-2 gr .....	3/- /6
Caffeine Comp. ....	12/- 1/5	Hyoscynamine crystals, 1-100 gr .....	10/3 1/3	Rhus Toxicodendron, tincture, 1 min .....	3/6 /7
Calabar Bean, tincture, 1 min .....	3/- /6	Hyoscynamus, fl. ext., 1 min .....	3/- /6	Saccharin, 25 milligrams .....	9/6 1/2
Calcium sulphide, 1-4 gr .....	3/- /6	Hyoscynamus, extract, 1-4 gr .....	3/- /6	Salicin, 1 gr .....	5/2 /9
Calomel, 1-10 gr .....	3/- /6	Hyoscynamus, tincture, 1 min .....	3/- /6	Salicylic acid, 1 gr .....	4/4 /8
Calomel and Dover's Powder, B "A".....	3/6 /7	Ignatia bean, 1-20 gr .....	3/- /6	Salol, 1 gr .....	7/3 1/11
Calomel and Ipecac, B "A".....	3/- /6	Ignatia, extract, 1-4 gr .....	3/- /6	Santoniu, 1 gr .....	8/8 1/1
Calomel, Ipecac and Sodium bi- carbonate .....	3/- /6	Ignatia, tincture, 1 min .....	3/- /6	Santoniu and Calomel .....	7/- /11
Calomel and Sodium bicarbonate, B "A" .....	3/- /6	Ipecac, fl. ext., 1 min .....	6/- /10	Sodium arsenate, 1-25 gr .....	3/- /8
Calomel and Sodium bicarbonate, Comp., B "B" .....	3/6 /7	Ipecac, powd., 1-10 gr .....	3/- /6	Sodium salicylate, 1 gr .....	5/2 /9
Cannabis Indica, extract, 1-8 gr .....	4/4 /8	Iron by hydrogen, 1 gr .....	3/- /6	Sparteine sulphate, 1-20 gr .....	4/4 /8
Cannabis Indica, tincture, 1 miln..	3/- /6	Iron arsenate, 1-10 gr .....	3/- /6	Squill, tincture, 2 mins .....	8/6 /7
Cannabis Indica, Arsenic and Iron	5/2 /9	Iron and Arsenic, B "A" .....	3/- /6	Stramonium lvs., tincture, 1 mila .....	8 - 6
Cannabis Indica, Digitalis and Iron	6/2 /9	Iron and Arsenic Comp. ....	3/- /6	Strophanthus, tincture, 1 mila .....	4 - 6
Capsicum, 1 gr .....	3/- /6	Iron, Arsenic and Strychnine, B "A" .....	3/- /6	Strychnine sulphate, 1-60 gr .....	3/- /6
Cardiac Compound .....	17/10 2/-	Iron by hydrogen, 1 gr .....	3/- /6	Tannic acid, 1 gr .....	3/6 /7
Carboic acid, 1-10 gr .....	2/- /6	Iron citrate, 1 gr .....	4/4 /8	Tartar enetic, 1-20 gr .....	3/- /6
Carminative (Fothergill) .....	7/- /11	Iron lactate, 1 gr .....	4/4 /8	Tartar enetic anal. Ipecac .....	3 - 6
Cascara Sagrada, extract, 1 gr .....	5/2 /9	Iron pyrophosphate, 1 gr .....	4/4 /8	Three Iodides .....	4/2 /8
Cathartic, active .....	3/- /6	Iron and Quinine citrate, 1-2 gr .....	4/4 /8	Throat (Dr. Quinlan) .....	5/2 /9
Catartic Comp., Improved, 1 gr ..	3/6 /7	Iron and Quinine .....	0/- /10	Tonsillitis .....	4/2 /8
		Iron, Quinine and Arsenic .....	0/- /10	Tully's Powder, 1 gr .....	3/6 /7
		Iron, Quinine and Strychnine .....	0/- /10	Veratrine, 1-32 gr .....	4/4 /8
		Iron and Strychnine citrate, 1-2 gr .....	3/6 /7	Veratrine sulphate, 1-20 gr .....	4/10 /9
		Iron and Strychnine Comp. ....	0/6 /10	Veratrine album, tincture, 1 min .....	3/- /6
		Jaborandi, fl. ext., 1-2 miln .....	3/- /6	Veratrine viride, tincture, 1 min .....	3/- /6
		Leptandrini, 1-4 gr .....	3/- /6	Zinc phosphide, 1-10 gr .....	8/- /6
		Lithium carbonate, 1 gr .....	4/10 /9	Zinc phosphide and Nux Vomica .....	3/6 /7
		Lithium carbonate and Sodium ars nate .....	5/2 /9	Zinc sulphocarboxilate, 1-6 gr .....	8/- /6

\* PLEASE SEND FOR OUR COMPLETE PRICE LIST, POST-FREE ON APPLICATION.

July 28, 1894.



## CONDENSED LIST OF PARKE, DAVIS &amp; CO.'S PREPARATIONS.

# Soluble Gelatin Capsules.

PREPARED FROM THE FINEST FRENCH GELATIN BY IMPROVED PROCESSES AND APPARATUS; VERY SOLUBLE AND EASY TO SWALLOW; UNEXCELLED IN QUALITY.

We offer here a superior means for the administration of drugs possessing pungent, acrid or oily properties. The enclosure of such substances in an envelope of flexible gelatin not only avoids giving offense to the palate, but allows the medicine to be exhibited with greater ease, and in larger single doses.

When drugs of this nature are taken in the ordinary way, it becomes a difficult matter to avoid the occurrence of nausea, which often seriously interferes with the production of the proper remedial effect.

We desire to state, with reference to the drugs which are presented in this form, that whether or not of our own manufacture, they are of the best quality the market affords.

## Elastic Filled Capsules, Extra-Sized.

These Capsules are easy to swallow, and present a very pleasant method for administration of Castor and Cod Liver Oils to patients to whom these drugs in an undisguised form are repulsive.

	Per doz. boxes of 1 doz.	Per doz. boxes of 2 doz.	Per doz. boxes of 1 doz.
Castor Oil, 2½ Gm.	5/- 9/-		
Castor Oil, 5 Gm.	6/- 11/-		
Castor Oil, 10 Gm.	8/- 15/-		
Castor Oil, 15 Gm.	10/- 19/-		
Cod Liver Oil, Norwegian, 2½ Gm.	5/- 9/-		
Cod Liver Oil, Norwegian, 5 Gm.	6/- 11/-		
Cod Liver Oil, Norwegian, 10 Gm.	8/- 15/-		
Cod Liver Oil, Norwegian, 15 Gm.	10/- 19/-		
Male-fern and Castor Oil, 2½ Gm.	10/- 19/-		
Santonin and Castor Oil, 2½ Gm..	7/- 13/-		

## Hard Filled Capsules.

	Per doz. boxes of 1 doz.	Per doz. boxes of 2 doz.	Bulk, per box of 100.
Apiol, 5 ml.	21/- 6/8		
Castor Oil, 10 ml.	4/- 1/- 2/-		
Castor Oil and Podophyllin.	4/- 7/- 2/-		
Chaulmoogra Oil, 5 ml.	6/8 12/4 3/9		
Cod Liver Oil, Nor., 10 ml.	4/- 7/- 2/-		
Cod Liver Oil & Iron Iodide.	4/6 8/- 2/4		
Copaiba, Para, 10 ml.	4/- 7/- 2/-		
Copaiba and Iron.	4/6 8/- 2/4		
Copaiba & Oleoresin Cubeb.	6/- 11/- 3/4		
Copaiba, Cubeb and Buchu.	6/- 11/- 3/4		
Copaiba, Cubeb and Iron.	6/- 11/- 3/4		
Copaiba, Cubeb and Rhatany	6/- 11/- 3/4		
Copaiba, Cubeb and Sandal.	8/- 15/- 4/8		
Copaiba, Cubeb and Sarsaparilla.	6/- 11/- 3/4		
Copaiba, Cubeb and Turpentine.	6/- 11/- 3/4		

## Elastic Filled Capsules.

	Per doz. boxes of 1 doz.	Per doz. boxes of 9 doz.	Bulk, per box of 100.
Eucaalyptus Oil, 5 ml.	4/6 8/- 2/4		
Haarlem Oil, 10 ml.	4/- 7/- 2/-		
Male-fern and Kamala	11/8 22/4 7/1		
Sandal Oil, East India, 10 ml.	11/- 21/- 6/8		
Sandal and Cassia.	10/- 19/- 6/-		

	Per doz. boxes of 1 doz.	Per doz. boxes of 9 doz.	Bulk, per box of 100.
Copaiba and Oil of Cubeb...	6/8 12/4 3/9		
Copaiba and Rhatany	4/6 8/- 2/4		
Copaiba and Sandal.	8/- 15/- 4/8		
Copaiba and Matico.	7/- 13/- 4/-		
Copaiba, Cubeb and Matico,	6/8 12/4 3/9		
Copaiba, Cubeb, Matico and Sandal.	9/- 17/- 5/4		
Copaiba Oil & Oil of Cubeb.	8/4 15/8 4/11		
Creosote, 1 ml.	6/- 11/- 3/4		
Cubeb Oil, 10 ml.	12/6 24/- 7/8		
Cubeb Oleoresin, 10 ml.	10/- 19/- 6/-		
Cubeb and Matico.	11/8 22/4 7/1		
Eriigeron Oil, 10 ml.	7/- 13/- 4/-		
Eucalyptus Oil, 5 ml.	6/8 12/4 3/9		
Gurjun Balsam, 10 ml.	6/8 12/4 3/9		
Haarlem Oil, 10 ml.	4/6 8/- 2/4		
Linseed Oil, 10 ml.	4/- 7/- 2/-		
Liquor Sedans.	7/- 13/- 4/-		
Male-fern and Kamala	13/4 25/8 8/3		
Matico Oleoresin, 10 ml.	12/- 23/- 7/4		
Nitroglycerin, 1-100 gr.	5/6 10/- 3/-		
Origanum Oil, 5 ml.	5/- 9/- 2/8		
Pennyroyal Oil, 1 ml.	4/6 8/- 2/4		
Petroleum Mass, 10 ml.	4/6 8/- 2/4		
Phosphorated Oil, 1-10 gr.	4/- 7/- 2/-		
Phosphorated Oil Comp.	5/- 9/- 2/8		
Pilcib Extract, 5 grs.	7/- 13/- 4/-		
Quinine hydrochlor., 2 grs.	4/- 7/- 2/4		
Quinine sulphate, 3 grs.	3/11 7/2 2/3		
Sandal Oil, East India, 5 ml.	6/8 12/4 3/9		
Sandal and Cassia.	10/10 20/8 6/6		
Saw Palmetto, 30 grs.	5/- 9/- 2/8		
Taeniafuge.	13/4 25/8 8/3		
Tar, purified, 10 ml.	4/- 7/- 2/-		
Terebene, 10 ml.	6/8 12/4 3/9		
Turpentine Oil, 5 ml.	4/- 7/- 2/-		
Valerian Oil, 2 ml.	6/8 12/4 3/9		
Warburg's Tincture.	13/4 25/8 8/3		
Wintergreen Oil, 5 ml.	6/- 11/- 3/4		

# Hypodermic Tablets.

We manufacture, on order, any tablets that may be desired, provided the quantity required and the nature of the material employed, do not preclude their manufacture.

A hypodermic case adapted to these tablets is provided with or without the syringe. For illustration, see page 18; for price, see "Specialties."

## OUR COMPLETE LIST COMPRISES 78 FORMULÆ.

A	C	A	C	A	C
Per tube	Per bot.	Per tube	Per bot.	Per tube	Per bot.
of 25 each.	of 25 each.	of 25 each.	of 25 each.	of 25 each.	of 25 each.
Aconitine, crystals, 1-120 gr.	/9 2/4	Corrosive subliminate, 1-100 gr.	/6 1/-	Nitroglycerin, 1-100 gr.	/5 1/-
Apomorphine hydrochlor., 1-10 gr.	/10 2/8	Corrosive sublimate, 1-25 gr., with Urea.	/7 1/8	Physostigmine sulphate, 1-100 gr.	/7 1/8
Atropine (crystals), 1-150 gr.	/5 1/-	Digitallin, pure, 1-100 gr.	/5 1/-	Picrotoxine, 1-50 gr.	/9 2/4
Atropine sulphate, 1-100 gr.	/5 1/-	Gelsemine hydrochlorate, 1-50 gr.	1/4 4/8	Pilocarpine hydrochlorate, 1-3 gr.	3/4 12/8
Caffeine, 1-2 gr.	/7 1/8	Hyoscine hydrobromate, 1-100 gr.	/9 2/4	Pilocarpine nitrate, 1-3 gr.	3/4 12/8
Cocaine hydrochlorate, 1-4 gr.	/9 2/4	Hyoscyamine, pure, 1-100 gr.	/6 1/4	Quinine and Urea muritate.	/9 2/4
Codeine, 1-8 gr.	/11 3/-	Morphine and Atropine, B. "H".	/7 1/8	Sodium arsenite, 1-10 gr.	/5 1/-
Codeine phosphate, 1-4 gr.	1/1 2/8	Morphine hydrochlorate, 1-8 gr.	/6 1/4	Spartine sulphate, 1-30 gr.	/6 1/4
Conine hydrobromate, 1-8 gr.	/11 3/-	Morphine sulphate, 1-4 gr.	/6 1/4	Strychnine nitrate, 1-40 gr.	/6 1/4
Cochicine, 1-30 gr.	/11 3/-			Strychnine sulphate, 1-100 gr.	/5 1/-

## CONDENSED LIST OF PARKE, DAVIS &amp; CO.'S PREPARATIONS.

## OPHTHALMIC TABLETS.

In the Introduction of Soluble Ophthalmic Tablets we aim to embrace those drugs most commonly employed locally in treating diseases of the eye, or in preparing this organ for surgical therapeutics. We are confident that their importance, value and usefulness will be at once recognized, not only by the eye specialist but also by the general practitioner.

These tablets dissolve readily in water, and hence can be employed for the extemporaneous preparation of solutions.

When a diluent is required a sufficient quantity of chemically pure boric acid is added.

The tablets are put up in bottles of 100, or, in the case of more expensive ingredients, in tubes of 25.

Per tube of 25.	Per bot. of 100.	Per tube of 25.	Per bot. of 100.	Per tube of 25.	Per bot. of 100.
Atropine sulphate, 1 gr.....	3/4	Copper sulphate, 1 gr.....	1/4	Sodium borate, 5 grs.....	1/8
Boric acid, 5 grs.....	1/8	Eserine, see Physostigmine.		Tannic acid, 5 grs.....	2/6
Cocaine, see Specialties.		Physostigmine salicylate, 1-8 gr.	2/2	Zinc sulphate, 1 gr.....	1/4

## SPECIALTIES.

The Specialties here quoted represent articles which, owing to their irregular style or size of package, or on account of their nature, cannot well be classified among the regular lines quoted above. *Liquid Preparations are put up in bottles of 16 fl.ozs. except where otherwise specified.*

☞ Special quotations for quantities upon application.

Acid phosphates, liquid.....	per bot..	1/6
Amyl nitrite Pearls, 2, 3, 4 or 5 drops per box of 1 doz..	1/8	
8 or 10 drops....per box of 1 doz..	2/8	
Antiseptic Liquid..per doz, 32-oz. bots..	18/-	
Antiseptic Soap, Johnston's (Liquid)....		
per bot..	4/-	
Beef, Iron and Wine.....per doz..	34/-	
Bone, powdered.....per 1-2 lb. can..	1/9	
Bronchial Sedative (Palmer's).per bot..	8/8	
Cascara Cordial.per doz. 12-fl.oz. bots..	36/-	
Chlor-Anodyne.....per oz. vial..	1/4	
Coca Cordial.....per bot..	4/4	
Cocaine hydrochlorate tablets, 2 1/4 gr. tablets....per vial of 12..	3/-	
1 1/8 gr. tablets....per vial of 25..	3/1	
Comp. Cerebral Sedative, B "A".....per bot..	8/-	
B "B".....per bot..	6/9	
COMPRESSED TABLETS IN BULK AND SPECIAL STYLE FOR RETAILING.		
Ammonium chloride, 3 grs....per lb..	3/6	
Borax, 5 grs.....per lb..	2/-	
Brown Mixture, 100 mins.....per lb..	2/-	
Digestive, R "A", per doz. bots. of 30..	12/-	
Licorice Powder Comp., 20 grs. per lb..	2/-	
Pepsin and Bismuth, B "A".....		
per doz. bottles of 30..	10/-	
Potassium bicarbonate, 5 grs..per lb..	2/6	
Potassium bromide, 5 grs....per lb..	4/-	
Potassium chlorate, 5 grs....per lb..	2/-	
in bottles of 40 tablets...per doz..	3/3	
Potassium chlorate and Ammonium chloride.....per lb..	2/8	
in bottles of 40 tablets...per doz..	3/3	
Potassium chlorate and Borax, 2 1/2 grs. each.....per lb..	2/-	
Soda Mint.....per lb..	2/-	
in bottles of 40 tablets...per doz..	3/9	
Sodium bicarbonate, 5 grs....per lb..	2/-	
in bottles of 40 tablets...per doz..	3/3	
Condurango Wine.....per hot..	4/6	
Diazyd Iron.....per bot..	1/10	
glycerated.....per bot..	2/2	
Diurnal Tablet Triturate Case, complete..	12/6	
Diurnule Case complete, with Diurnules..	13/6	
Emergency Case.....	46/-	
Ergotin (Bonjino).....per oz..	2/8	
Ergotin for hypodermic use.....per oz..	4/6	
Esencia de Calisaya, Mosquera's.....		
per 14-oz. bot..	3/6	
Esencia de Coca, Mosquera's.....		
per 14-oz. bot..	4/8	
Eucalyptus and Thymol Antiseptic.....		
per bot..	3/6	
Glycerin Suppositories.....		
per doz. bots. of 1-2 doz..	5/3	
per doz. bots. of 1 doz..	8/-	
Glycerole Yerbin Comp.....per doz..	48/-	
Gold solution (Gibbes-Shurly).....per oz..	3/6	
Hydrastine, white alk. of (Golden seal) ..		
per oz..	39/-	
Hydrastine hydrochlorato.....per oz..	33/6	
Hydrastine sulphate.....per oz..	33/6	
Hypodermic case, Aluminum .. each	16/-	
Iodine solution (Gibbes-Shurly).....per oz..	3/6	
Ipecac, Wine of.....per oz..	5/6	
Laxative Wafers.....per lb..	4/-	

Lime Juice and Pepsin.....	per bot..	3/9
Liquor Sedans.....	per bot..	4/-
MALT PREPARATIONS.	Per doz. 10-fl.oz. bots.	
Malt Extract (plain).....	20/10	
Malt Extract with Beef-peptone.....	28/-	
Malt Extract with Cascara Sagrada..	20/10	
Malt Extract with Cod Liver Oil, 10%..	20/10	
Malt Extract with Cod Liver Oil, 40%..	20/10	
Malt Extract with Ferrated.....	20/10	
Malt Extract with Hypophosphites..	20/10	
Malt Extract with Iron, Quinine and strychnine.....	20/10	
Malt Extract with Pepsin and Pan- creatin.....	20/10	
Malt Extract with Yerba Santa.....	20/10	

## MEDICATED LOZENGES—

In slide boxes for retailing, each box containing 36 lozenges. In gross lots or more, labels will bear customer's address if desired.		
Broughial .....	per gross boxes..	29/-
" Improved.....per gross boxes..	29/-	
Liquorice, uncoated.....per gross boxes..	26/-	
Potassium chlorate, 2 grs.....	per gross boxes..	29/-
" .....	per gross boxes..	29/-
Potass. chlorate and Ammon. chlor- ide, 1 gr. each .....	per gross boxes..	35/-
Santonin, 1-2 gr. ....	per gross boxes..	38/-
Santonin, 1 gr. ....	per gross boxes..	52/6
Santonin and Calomel, 1-2 gr. of each.	.....	
..... per gross boxes..	45/-	
Santonin Comp.....per gross boxes..	40/-	
Sautonin and Podophyllin.....	.....	
..... per gross boxes..	38/-	
Slippery Elm, 5 grs..per gross boxes..	29/-	
Yerba Santa Comp..per gross boxes..	29/-	
Menthол-pencils, in aluminum cases		
..... per doz. ....	5/4	
Santonin Comp.....per gross boxes..	40/-	
Sautonin and Podophyllin.....	.....	
..... per gross boxes..	38/-	
Slippery Elm, 5 grs..per gross boxes..	29/-	
Yerba Santa Comp..per gross boxes..	29/-	
Menthол-pencils, in aluminum cases		
..... per doz. ....	5/4	
Ox Gall, desiccated, scales.....per lb..	14/-	
inspissated.....per oz. jar..	7/8	
..... powdered.....per oz. vial..	1/-	
..... purified.....per oz. jar..	1/-	
Pancreatin, pure.....per oz..	5/10	
Pancreatin, saccharated.....per oz. vial..	1/9	

## PEPSIN.

Pepsin Aseptic, 1-2000....per oz. vial..	1/11	
1-3000....per oz. vial..	2/7	
1-4000....per oz. vial..	3/6	
Pepsin Aseptic Tablets, 1 gr.		
..... per doz. bottles of 30..	9/-	
..... per bottle of 100..	2/-	

Pepsin Cordial.....per doz. 8-oz. bots..	37/-	
Pepsin, Glycerole cone ..per 4-oz. bot..	1/9	
Pepsin, Lactated.....	1/5	
Pepsin Lactated Tablets .....		
..... per doz. bottles of 30..	10/-	
Pepsin, Sacch., 1-300.....per oz. vial..	1/10	
Peptonizing Tablets, Improved .....		
..... per bot. of 30..	1/5	
Petroleum Mass, crude ..per oz. bot..	/6	

## PEPPERS, IN BULK AND FOR RETAILING.

Aperient granules.....	per 1,000..	3/3
Comp. Cathartic granules.....	per 1,000..	3/3

PILLS, IN BOTTLES OF 1 POUND      Sugar Gelatin  
EACH.      Coated. Coated.

Aloes and Iron, B. P.....per lb..	8/3	....
Aloes and Myrrh, B. P.....per lb..	5/3	....
Asafoetida, 3 grs.....per lb..	4/8	8/9
Blaud's Ferruginous, 3 grs.....per lb..	4/8	7/3
modified.....per lb..	4/4	5/10
Compound Cathartic granules, 3-4 gr.....per lb..	12/6	27/9
improved, 3 grs.....per lb..	6/-	8/6
modified.....per lb..	8/3	14/6
Iron, proto-carbonate (Vallet), 3 grs .....	4/4	7/-
Rhubarb, 3 grs.....per lb..	7/7	12/10
Rhubarb Coup., B. P.....per lb..	8/9	....

PILLS, SUGAR-COATED, IN BOTTLES, with  
buyer's card for retailing.

Bracket figures indicate number of pills in each package; for less than half a gross add 2/- for printing labels.	Per gross bottles.
Aperient granules.....(40)	35/-
Cath. Comp. Gran., R 2 .....	(40)
Cath. Comp., improved.....(25)	35/-
Catb. Comp., modified.....(25)	35/-
Cath. Comp., U. S. P .....	(25)
Cath. Comp., vegetable.....(25)	35/-
Cook's.....(25)	33/6
Reagent Case, Pocket.....each	8/9
Rennin.....per oz. vial..	5/-
Rhubarb Fingers.....per lb..	4/4
Sanguis bovinus exsicciatus.....	
..... per doz, 1-1 lb. cans..	39/-
Seiple's Atomizing Inhaler.....each..	16/-
Sulphur Torches.....per doz..	8/9
SYRINGES.	
Chamberlin's Utero-Vaginal.....each..	5/-
Indispensable Cup.....each ..	11/8
SYRUPS.	
Hematic Hypophosphites...per doz..	31/-
Iron Chlorido (Weld).....per doz..	38/-
Trifolium Compound.....per doz..	38/-
Taro Flour.....per sack of 5 lbs..	5/8
Terebene.....per oz. vial..	8/-
Thyroids, Desiccated.....per oz. bot..	7/3
Thyroids Extract, Aseptic..per oz. bot..	7/3
Urinary Test Tablets.....per tube of 25..	/6

We furnish the following tests: Citric acid; Indigo and Sodium carbonate; Pieric acid; Potassium ferrocyanide; Potassio-mercuric iodide; Sodium carbonate; Sodium tungstate; Lead oxide; Litmus Paper.

Urinary Test Tablets, Bismuth subnitrate ..	per tube of 25 each..	/8
Veterinary case, complete .....	each ..	58/6
Warburg's Tinture.....per fl.oz. bot..	10/-	
special .....	per fl.oz. bot..	10/-
Witch Hazel, concen. distilled ext.....	.....	1/-
..... per 8-oz. bot..	.....	1/-

## FOOD PRODUCTS.

(Mosquera-Julia Food Co.)

We beg to draw the attention of the trade to the fact that we are sole agents in this country for the preparations of the

MOSQUERA-JULIA FOOD COMPANY,

as briefly enumerated below. We shall be pleased to forward on request descriptive literature on the subject of Food Products.

## MOSQUERA'S BEEF-JELLY.

A concentrated, predigested and nutritious food product resembling in physical characteristics an extract of beef, but superior in all respects. Per doz. 2-oz. jars, 18/-; per doz. 4-oz. jars, 33/-; per doz. 8-oz. jars, 60/-.

We put up the Beef-Jelly also in capsule form, each holding 24 grs. Price per box of 2 doz., 2/6.

## MOSQUERA'S FLUID BEEF-JELLY.

This preparation is identical with our solid Beef-Jelly, except in form, its main feature of advantage being that it instantly mixes with either hot or cold water. Per doz. 4-oz. flasks, 21/-; per doz. 8-oz. flasks, 36/-; per doz. 16-oz. flasks, 67/-.



ALUMINUM  
HYPODERMIC CASE.



## CASCARA SAGRADA.

**FAILURE IN THE ADMINISTRATION OF CASCARA SAGRADA** is often due to the employment of AN INFERIOR PREPARATION or one made from A SPURIOUS DRUG.

**SUCCESS MAY BE ASSURED BY REMEMBERING** that: 1.—We are the INTRODUCERS of the drug. 2.—Medical reports proving its efficacy have almost invariably been based upon the use of OUR products. 3.—Our facilities for securing the true bark, properly gathered, and for manufacturing a therapeutically efficient product, are unequalled. 4. The best results follow its continued use as a tonic laxative and not as a cathartic.

**Fluid Extract Cascara Sagrada** as first introduced by us, remains by far the strongest and best preparation upon the market, and, quality and dose considered, is likewise the cheapest.

**Cascara Cordial** is adapted to cases of habitual constipation which, in the judgment of the doctor, require a mild and prolonged treatment for effectual and permanent cure, and is more especially indicated for administration to aged people, ladies and children.

**Fluid Cascara Sagrada Aromatic** is introduced to meet a demand for a more palatable preparation than the Fluid Extract Cascara Sagrada, and one which, at the same time, may be exhibited in smaller doses than the Cordial.

## MOSQUERA'S BEEF-MEAL.

A predigested powdered meat, representing in actual nutritive value six times its weight of good lean beef. Per doz. ½-lb. tins, 30/-.

## MOSQUERA'S BEEF-CACAO.

A concentrated food consisting of Beef-Meal, a special grade of Dutch Cacao, and sugar in equal proportions. Per doz. ½-lb. tins, 30/-.

## DIGESTIVE FERMENTS.

No branch of materia medica promises more interesting or startling developments than that embracing the so-called physiological remedies. Recognizing this fact, we have devoted special attention to their practical separation and purification, and are consequently enabled to present to the medical profession a line of digestive agents which, by virtue of superiority and general excellence, has not only met with wide application but has done much to raise the absurdly low standards of strength which formerly prevailed. For a detailed description of our preparations of Pepsin and Pancreatin, see our complete list and descriptive literature on the subject, post-free on application.

## PRESSED HERBS.

Our Complete Price List contains an extensive list of Pressed Herbs, including a full selection of

Herbs, Leaves, Flowers, Barks and Roots for Druggists' Use.

We pay particular attention to the quality and identity of the drugs; our facilities for securing supplies are superior; we take the greatest care in packaging, and our packages are specimens of neatness and security.

A complete price list of Pressed Herbs, Etc., will be sent post-free upon application to

**PARKE, DAVIS & CO.,**

Manufacturing Chemists,

21 N. AUDLEY ST. (451 OXFORD ST.), MAYFAIR  
LONDON, W.

IMPORTANT REDUCTIONS HAVE BEEN MADE IN LIST PRICES.

THE

**"McK.&R."**



**PILLS.**

Trade Mark, Registered.

ORIGINATED 1870 BY

**McKESSON & ROBBINS,**

Manufacturing Chemists, New York.

Established 1833.

The profession and all dispensing chemists are supplied by the principal wholesale houses in the trade throughout Great Britain and Ireland, and are respectfully cautioned against many imitations.

"In the class of Pills there are probably few improvements that have attained such wide and speedy recognition in the profession to the beautiful Ovoid Capsuled Pills of McKESSON & ROBBINS, New York."—*Medical Press and Circular* (London).

"The Pills of McKESSON & ROBBINS are quite of the highest class of merit, in respect to the method, in respect to the materials, and in respect to results."—*British Medical Journal*.



#### PECULIAR MERITS OF THE "McK. & R." PILLS.

The covering entirely disguises the taste, and, because of the ovoid form, they are easily taken by persons who cannot swallow round pills—even when coated with sugar.

The Pills are perfectly sealed by a complete envelope of pure transparent gelatine—applied while the mass is soft—protecting all delicate substances from the oxidizing influences of the atmosphere, and keeping the pills in a perfectly soluble condition. The capsule dissolves very quickly when placed in the mouth.

They are not subjected to that injurious application of heat which so greatly impairs the ordinary coated pills.

We give this department our personal attention and carefully superintend every detail; as a consequence the uniform drugs and their exact subdivision in the "McK. & R. Pills" can be relied upon with confidence by the Profession, and these advantages can always be secured regardless of the locality in which the Pills may be dispensed.

#### McK. & R. FORMULA LIST

OF THE BRITISH PHARMACOPÆIA AND OTHER STANDARD AUTHORITIES.

Put up in Bottles Containing 25 or 100 Pills Each.

##### A

###### Aconitine Crystals, Duquesnel, 1-500 gr

Dr. A. Dumas considers aconitine an energetic and very efficacious remedy, especially in congestive facial neuralgia. He lays great stress on the necessity for a reliable preparation, and we would, therefore, caution the physician to specify "McK. & R."

###### Aloes, Barb., B. P., 5 grs

{ Aloes Barb. Pulv., 2 1-2 grs. Rose Conf., 1 1-4 grs. }

{ Saponis Pulv., 1 1-4 grs. Ol. Carol.

###### Aloes, Dilute (Dr. Hall Dinner Pill), 4 grs

{ Aloes Barb., Pulv. Ext. Glycyrrh., }

{ Saponis Pulv., Theriaca, ss, 1 gr.

###### Aloes, Socotrine, B. P., 5 grs

{ Aloes Soc. Pulv., 2 1-2 grs. Rose Conf., 1 1-4 grs. }

{ Saponis Pulv., 1 1-4 grs. Ol. Myristicum.

###### Aloes and Asafoetida, B. P., 5 grs

{ Aloes Soc. Pulv., Saponis Pulv., }

{ Asafoetida, Rose Conf., ss, 1 1-4 grs. }

###### Aloes and Iron, B. P., 5 grs

{ Aloes Barb. Pulv., 1 gr. Chlnam. Co. Pulv., 1 1-2 grs. }

{ Ferr. Sulph., 3-4 gr. Rose Conf., 1 8-4 grs. }

Aloes and Myrrh, B. P., 8 grs

{ Aloes Soc., 1 gr. Myrrh, 1-2 gr. }

{ Crocus, 1-4 gr. Rose Conf., 1 1-4 grs. }

Aloes and Myrrh, B. P., 8 grs.

{ Aloes Soc., 1 2-3 grs. Myrrh, 5-6 gr. }

{ Crocus, 5-12 grs. Rose Conf., 2 1-12 grs. }

Aloes and Nux Vomica, 8 grs.

{ Pulv. Aloes Soc., 1 1-2 grs. Ext. Nuci Vom., 1-2 gr. }

Aloin, 1-10, 1-4, 1-2, 1 gr.

These pills of aloin (the active principle of aloes) were first introduced by us to the medical pro-

fession several years ago, and rapidly became a favorite, since they represented the aperient properties of aloes without the griping tendencies common to that drug. In a recent article (*Lancet*, Jan. 1, 1887) on the management of Simple Con-

stipation, Sir Andrew Clark says: "If the use of drugs is unavoidable, try the aloin pill. Take one half an hour before the last meal of the day, or just so much of one as will suffice to move the bowels in a natural way the next day before breakfast. If it should produce a very copious motion, or several small motions, the pill is not

acting right; only a fourth, or even less, should be taken for a dose. When the right dose has been found it may be taken daily or on alternate days until the habit of defecation is established. Dr. Clark uses aloin in combination with nux vomica, iron, myrrh, etc. (See Aloin, or Aperient No. 4.)

###### Aloin Compound.

{ Aloin, 1-8 gr. Belladonna, 1-8 gr. }

{ Podophyllin, 1-8 gr. }

###### Aloin and Strychnine.

{ Aloin, 1-5 gr. Strychnin, 1-60 gr. }

A tonic laxative granule, prescribed for chronic constipation where a painless peristaltic action is desired. Especially useful in the treatment of the aged. Since introducing this formula to the profession, and adding the granule to our list, our sales have been exceedingly large. We have received numerous letters and reports from physicians, speaking in the highest terms of the results of their administration, and thanking us for introducing this granule to their notice. Always specify "McK. & R."

The reputation of Gelatine-Coated Pills has been created by our manufacture.

"Pills of exceptional merit for originality and for excellence of manufacture."—*Medical Times and Gazette*.

## REFERENCE TO THE GELATINE-COATED PILL.

ORIGINATED BY MCKESSON &amp; ROBBINS, 1870.

"The process of coating the McK. & R. pills with gelatine not only takes away the disagreeable appearance, odor, and taste, but forms a hermetical coating about the medicine, protecting it from atmospheric moisture, and thus preventing deterioration. This fact enables one to purchase them in larger quantities without fear of change of their composition. They are not affected by climate, changes in temperature, or variations in the hygrometric conditions of the atmosphere; and drugs which otherwise oxidize rapidly may be preserved in this state for years. The gelatine coating is perfectly transparent, and very thin, so that it requires but half a minute in the mouth to dissolve it. Being of oval shape, they do not resemble ordinary coated pills; they are swallowed with the greatest ease where the above-mentioned are rejected. The slippery character which the coating assumes after having been taken into the mouth renders the pill almost imperceptible to the sensitive mucous membranes of the soft palate and fauces, and this, we think, contributes greatly to the ease of administration." (Reprinted from the *Obstetric Gazette*, U.S.A.)

During the past few years many imitations of our Pills, some of them quite inferior, have been put upon the market, and these, we regret to say, are sometimes dispensed on prescriptions when our Pills have been desired; and as the preference for our Capsuled Pills is increased by microscopical and chemical as well as therapeutical tests of quality, we would most earnestly and respectfully request Physicians to specify "McK. & R." on all prescriptions and orders to their retail druggists, and to order, when circumstances will admit, in original vials of 25 to 100 Pills each. Very respectfully, MCKESSON & ROBBINS, 91 FULTON ST., NEW YORK, U. S. A.



## McK. &amp; R. COMPOUND STEARATE INSUFFLATIONS.

The Compound Stearates, introduced recently by MCKESSON & ROBBINS, are now presented with confidence, to the Medical Profession at large, as powders, which are remarkable for their molluscence when applied to unoin or protect diseased conditions of the skin and mucous membrane. They are adhesive, and yet as grateful vehicles in which drugs may be administered locally.

Desirable as adjuvants in insufflations and anti-pruritic dusting powders, they can be used to cover and protect the surface of the skin, without soiling the clothing, and offer a very profitable field for therapeutic investigation, where the frequently rancid oleates and ointments, or the ordinary soluble and non-adhesive dusting and other powders for the skin and mucous membrane, are not desirable.

In bottles, containing 1 oz. by weight (from 4 to 6 ozs. by measure).

McK. & R. Compound Stearate of Zinc.

McK. & R. Compound Stearate of Zinc with Alum.

McK. & R. Compound Stearate of Zinc with Ammonium Muritate.

McK. & R. Compound Stearate of Zinc with Aristol.

McK. & R. Compound Stearate of Zinc with Aromatized Iodoform.

McK. & R. Compound Stearate of Zinc with Balsam Peru.

McK. & R. Compound Stearate of Zinc with Bismuth Salicylic.

McK. & R. Compound Stearate of Zinc with Boric Acid.

McK. & R. Compound Stearate of Zinc with Camphor.

McK. & R. Compound Stearate of Zinc with Chrysarobin.

McK. & R. Compound Stearate of Zinc with Cocaine.

McK. & R. Compound Stearate of Zinc with Eucalyptol.

McK. & R. Compound Stearate of Zinc with Euophen.

McK. & R. Compound Stearate of Zinc with Exigone.

McK. & R. Compound Stearate of Zinc with Ichthyol.

McK. & R. Compound Stearate of Zinc with Iodoform and Boric Acid.

McK. & R. Compound Stearate of Zinc with Menthol.

McK. & R. Compound Stearate of Zinc with Resorcin.

McK. & R. Compound Stearate of Zinc with Salicylic Acid, Mild.

McK. & R. Compound Stearate of Zinc with Salicylic Acid, Medium.

McK. & R. Compound Stearate of Zinc with Salicylic Acid, Strong.

McK. & R. Compound Stearate of Zinc with Salol.

McK. & R. Compound Stearate of Zinc with Sulphur, Precipitated.

McK. & R. Compound Stearate of Zinc with Sulphur, Sublimed.

McK. & R. Compound Stearate of Zinc with Tannic Acid.

McK. & R. Compound Stearate of Zinc with Tar.

McK. & R. Compound Stearate of Zinc with Thymol.

McK. & R. Compound Stearate of Copper.

McK. & R. Compound Stearite of Manganese.

McK. & R. Compound Stearite of Mercury.

N.B.—The McK. & R. Compound Stearate of Zinc, also with Boric Acid, may be used as anti-pruritics, and for all purposes for which Lycopodium, starch, tulle and other toilet powders are employed, with the advantage of resisting moisture much more effectively.

Pyrozone 3% Solution, Aqueous.

Pyrozone 5% Solution, Ethereal.

Pyrozone 25% Solution, Ethereal.

Stable and pressureless solutions of  $H_2O_2$ .

PYROZONE ATOMIZERS.

All glass except the rubber bulb and tubing.

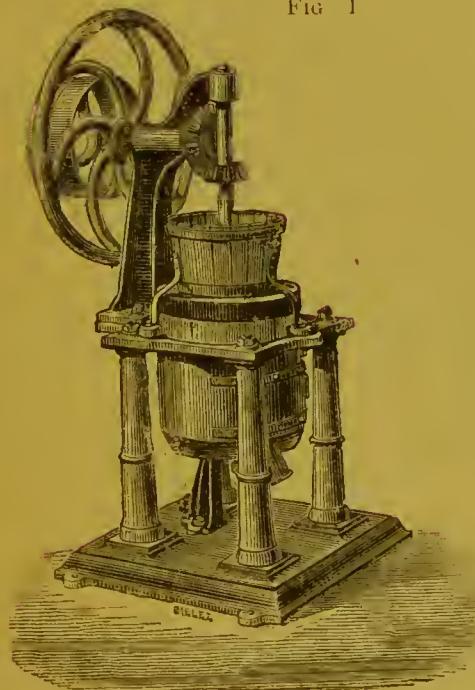
# SPECIAL MACHINERY

FOR THE MANUFACTURE OF PHARMACEUTICAL  
PREPARATIONS

## N. PALAU & G. BÉRA

PARIS — 8, Boulevard de Vaugirard, 8 — PARIS

FIG. 1

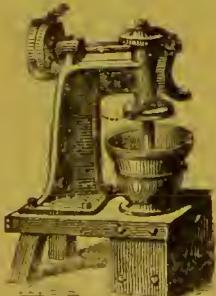


**MILL** for pulverising easily ground  
pharmaceutical preparations

FIG. 3

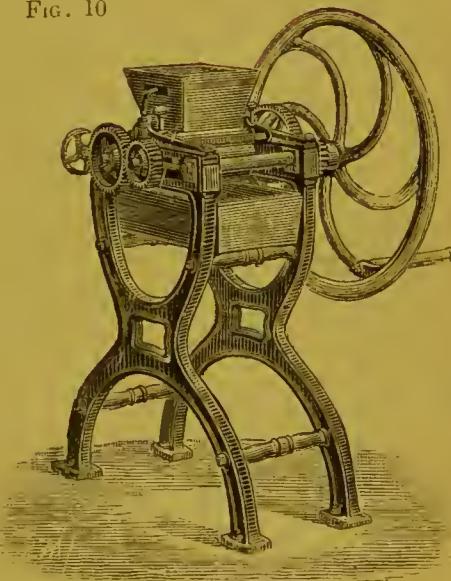


FIG. 4



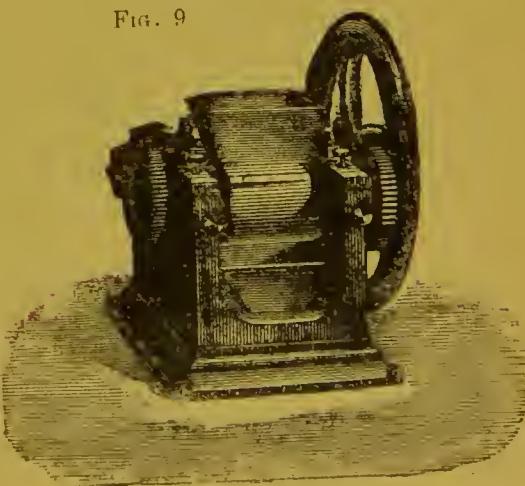
**MECHANICAL PILLERS**  
with revolving pestle, and pounding action

FIG. 10



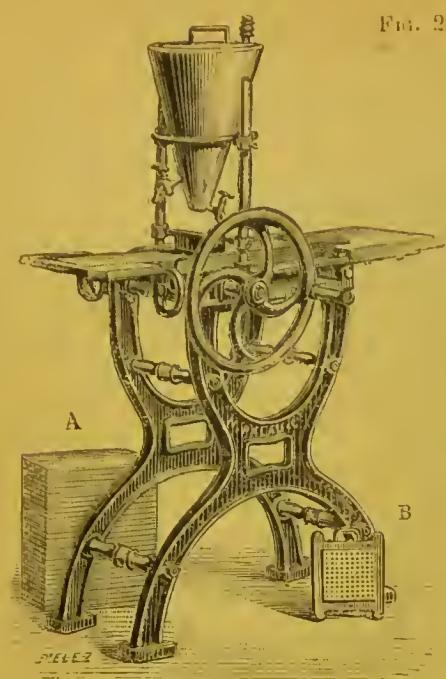
**CRINDER**  
for mixing adhesive substances

FIG. 9



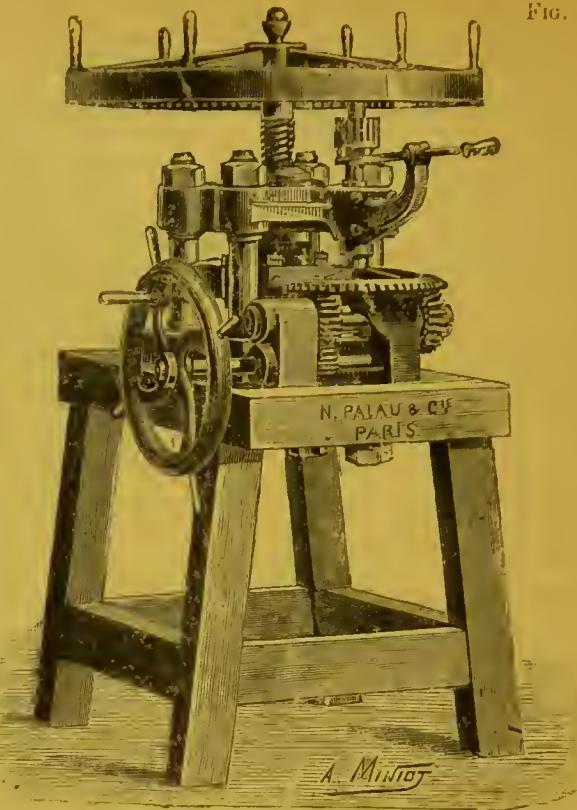
**CYLINDER-MILL** for Fatty grains

FIG. 24



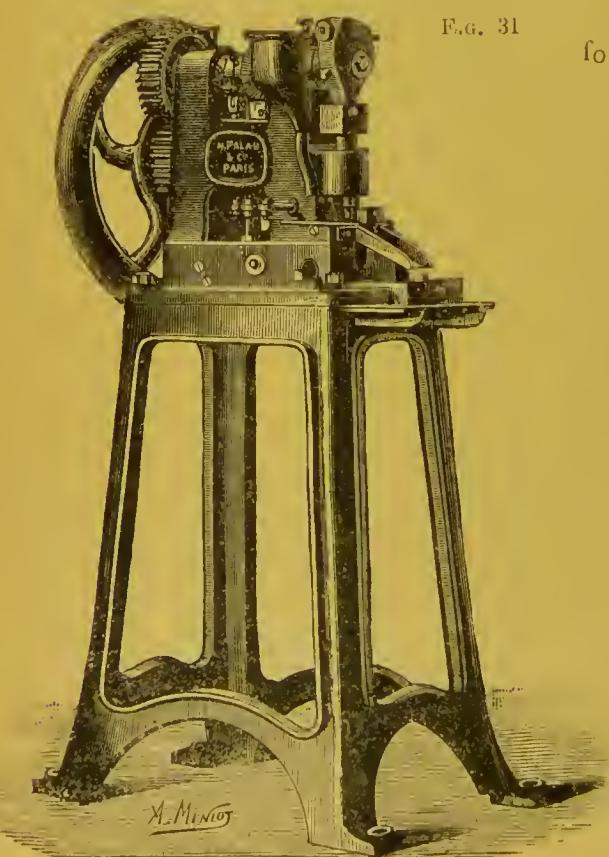
MACHINE  
for making sheet gelatine

FIG. 25



PRESS-MACHINE  
for the manufacturing of PEARLS and CAPSULES

FIG. 31



MACHINE  
for the manufacture of Pastilles by compression

**NOTA.** — We only illustrate  
here a selection of our Machines.  
Our Complete CATALOGUE of  
all apparatus necessary for the  
manufacture of pharmaceutical  
preparations is sent FREE upon  
application to

**PALAU AND BERÀ**

8 Boulevard de Vaugirard - 8

**PARIS**

# Armour's

## LABORATORY

## PRODUCTS.

PEPSIN.

2,500 test six hours.

Guaranteed four times B.P. strength.

- (a) INSOLUBLE POWDER (non-hygroscopic).
- (b) GRANULAR (soluble and non-hygroscopic).
- (c) POWDERED GRANULAR (do. do.).

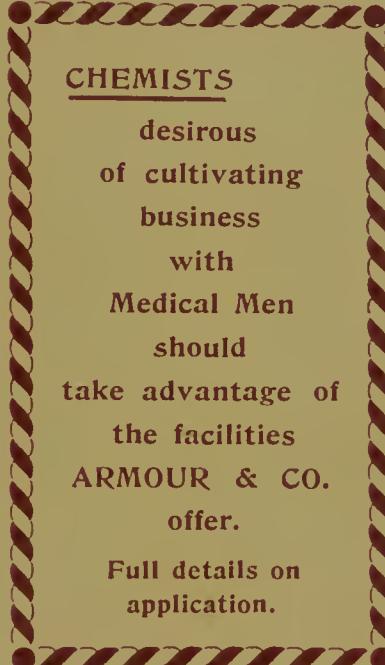
GLYCEROLE PEPSIN.GLYCEROLE PANCREATIN.ESSENCE PEPSIN.NUTRIENT WINE OF BEEF PEPTONE.TABLETS OF PURE PEPSIN.

3 GRAINS EACH.

In Flat Bottles for the Pocket.

LACTATED PEPSIN.

A Perfect Combination of the Digestive Ferments.

PEPTONISING TABLETS.

PURE PANCREATIN .. .. 2½ grains.

SODIUM BI-CARBONATE .. 8 "

*Recipes furnished for Pre-digesting Milk and other Foods.*BEEF PEPTONE. Paste.BEEF PEPTONE. Powder.OX GALL. Inspissated.

15 volumes = 100 volumes fresh Ox Gall.

OX GALL. Desiccated.DESICCATED BLOOD.PURE POWDERED BEEF.DRIED THYROIDS.EXTRACT OF BEEF.VIGORAL.Armour's Formulary,

Containing many valuable Recipes, the use of which is free to all Pharmacists, will be sent gratis on application.

ARMOUR & Co. slaughter annually nearly 2,000,000 Pigs, 825,000 Head of Cattle, and their killing floor lies within a stone's throw of their Laboratory.

Original methods and apparatus are used and controlled by Chemists, whose special study has been the preservation of the activity of the various Digestive Ferments.



HOG KILLING.

Armour & Co. (Chicago), 59 Tooley St., London, S.E.

*Re The Sale of Beef Extract  
by Chemists.*

# PLAIN WORDS.

The fact is the sale of Beef Extract by Chemists has of late years dwindled alarmingly. Why is this?

Competition, with its attendant evil genius "Cutting," has much to account for. The Chemist either gave up stocking or sold at full prices; his trade suffered in either case.

Then came the introduction of the so-called "Cheap Extracts," of which we will say no more than this. A showy label and a low price may sell one jar of bad Extract, but the steady demand belongs to the high-class article.

Our belief is that the public comes to the Chemist to get the best of everything. You can buy gluey Extracts with a dark colour, burnt taste, and chemical flavour anywhere, but don't expect to get that kind of thing at the Chemist's.

What we ask you to do is to examine Armour's Extract of Beef alongside any other brand.

If you have not a jar of Armour's in stock, write us, and we will send you one free. We know that you will find that Armour's Extract alone has the natural flavour of prime beef, and that it goes further than any other.

Finally, Armour's Extract of Beef does you credit to sell; no "Store" in London or the country cuts it, and it yields a fair living profit.

Order a trial stock from your wholesale house, and write us for supplies of our attractive advertising matter, including leaflets bearing your own name and address.

Don't leave it till winter; the summer demand for Extract can be made to equal the winter trade.

**Armour & Co.**

59 Tooley Street,

LONDON, S.E.

Head Office:

CHICAGO, U.S.A.



KILLING OXEN.

WITH THE  
COMPLIMENTS OF  
OPPENHEIMER, SON & CO LTD  
MANUFACTURING CHEMISTS,  
LONDON.

MDCCLXXXIV,

QUALITY - VARIETY - DESIGN - WORK

IT IS GENERALLY ACKNOWLEDGED THAT THE CORRECT POLICY OF A SUCCESSFUL HOUSE IS TO ADVERTISE--IN KEEPING WITH THE MAXIM, "THE DEAD ADVERTISE NOT". WE ARE INFORMED THE PROPER THING TO DO IS TO INSERT IN A SPECIAL NUMBER OF THE "CHEMIST AND DRUGGIST" AT LEAST SIXTEEN PAGES, BUT, CONSIDERING THE MANY CALLS UPON THE TIME OF THE BUSY CHEMIST, WE SHALL TRESPASS UPON HIS GOOD NATURE TO BUT HALF THAT EXTENT, AND EVEN THIS LIMITED SPACE WE DO NOT INTEND TO OCCUPY WITH OVR OWN PRAISE.

WE HAVE RECENTLY RECEIVED, NOTWITHSTANDING THE KEEN COMPETITION, AT THE HANDS OF PROFESSORS PATERNO, MONARI, BINZ, DACCOCOMO, PERATONER, COMPOSING THE JURY OF AWARDS APPOINTED AT THE INTERNATIONAL CONGRESS OF MEDICINE, HELD AT ROME,

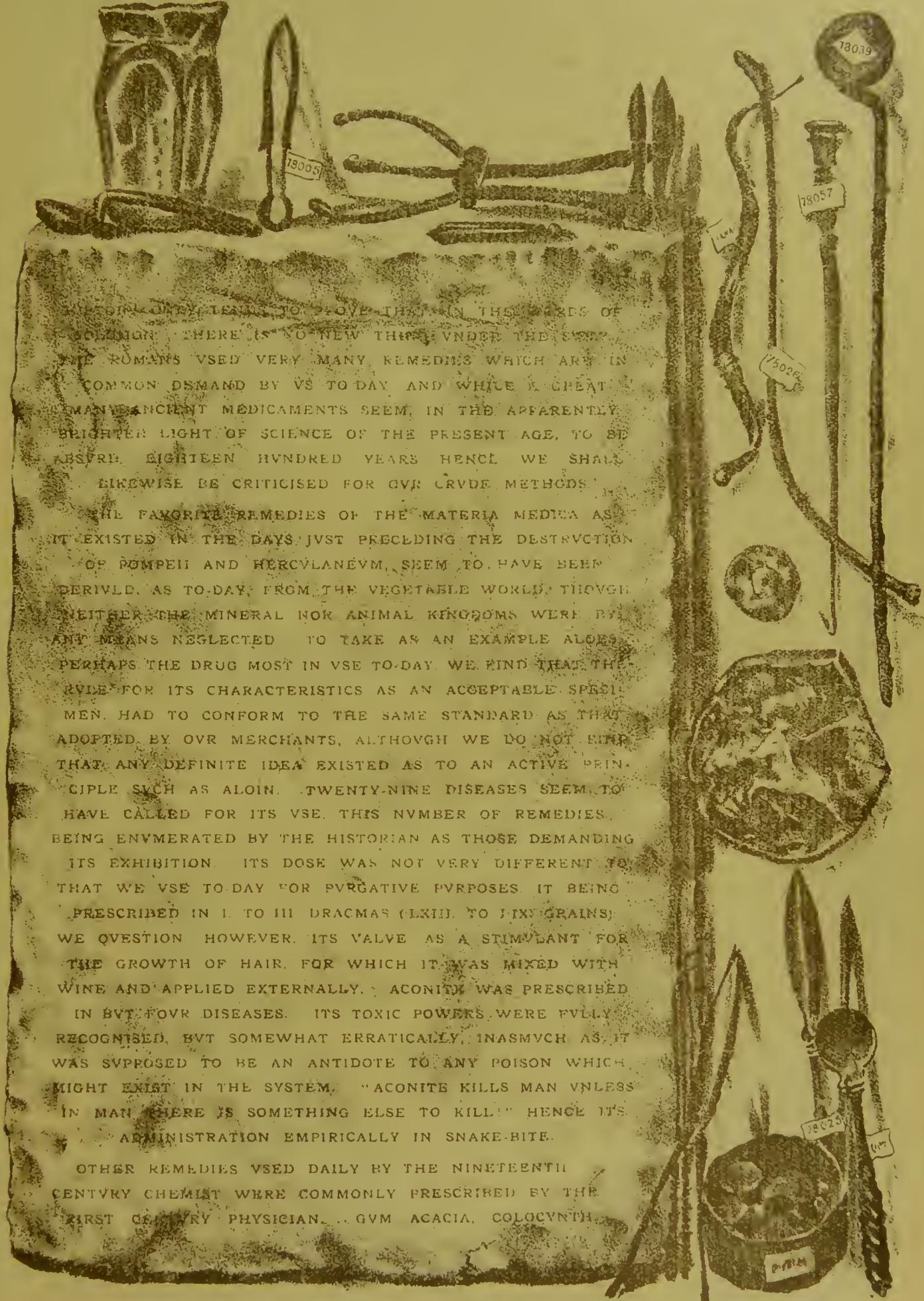
### THE ONLY GOLD MEDAL

AWARDED TO AN ENGLISH OR AMERICAN HOUSE, SO HAVE DEEMED IT APPROPRIATE AT THIS TIME TO PRESENT SOME INFORMATION ON PHARMACY AND MEDICINE AS IT EXISTED IN THE ROMAN EMPIRE (A.D. LXXIX., THE DATE OF THE DESTRUCTION OF POMPEII AND HERCULANEVM).

WITH THIS END IN VIEW WE SENT A SPECIAL ARTIST TO VIEW THE RUINS OF THESE CITIES. THE OBJECTS INTRODUCED IN THE FOLLOWING PAGES ARE FACSIMILES OF VESSELS AS USED IN PHARMACY, AND SURGICAL INSTRUMENTS UNEARTHED DURING THE EXCAVATIONS.

IT IS OUR INTENTION TO ISSUE SIMILAR MATTER AT STATED TIMES IN EACH ISSUE, AND WE AVVENTURE TO HOPE THAT THESE ENDEAVOURS WILL BE OF INTEREST TO OVR NUMEROUS FRIENDS.

GERALD HEIMERSON & CO LTD



NOT ONLY LEADS TO LOVE THEM IN THESE DAGES OF  
SCIENCE, THERE IS NO NEW THING UNDER THE SUN.  
THE ROMANS USED VERY MANY REMEDIES WHICH ARE IN  
COMMON DEMAND BY US TO-DAY, AND WHILE A GREAT  
MAN OF ANCIENT MEDICAMENTS SEEM, IN THE APPARENTLY  
BRIGHTER LIGHT OF SCIENCE OF THE PRESENT AGE, TO BE  
ASPIRE. EIGHTEEN HUNDRED YEARS HENCE WE SHALL  
EIKWISSE BE CRITICISED FOR OUR CRUDE METHODS.

THE FAVORITE REMEDIES OF THE MATERIA MEDICA AS IT EXISTED IN THE DAYS JUST PRECEDING THE DESTRUCTION OF POMPEII AND HERCULANEVM, SEEM TO HAVE BEEN DERIVED, AS TO-DAY, FROM THE VEGETABLE WORLD, THOUGH NEITHER THE MINERAL NOR ANIMAL KINGDOMS WERE BY ANY MEANS NEGLECTED. TO TAKE AS AN EXAMPLE ALOE, PERHAPS THE DRUG MOST IN USE TO-DAY. WE FIND THAT THE RULE FOR ITS CHARACTERISTICS AS AN ACCEPTABLE SPECI-  
MEN, HAD TO CONFORM TO THE SAME STANDARD AS THAT ADOPTED BY OUR MERCHANTS, ALTHOUGH WE DO NOT FIND THAT ANY DEFINITE IDEA EXISTED AS TO AN ACTIVE PRIN-  
CIPLE SUCH AS ALOIN. TWENTY-NINE DISEASES SEEM TO HAVE CALLED FOR ITS USE. THIS NUMBER OF REMEDIES, BEING ENUMERATED BY THE HISTORIAN AS THOSE DEMANDING ITS EXHIBITION. ITS DOSE WAS NOT VERY DIFFERENT TO THAT WE USE TO-DAY FOR PURGATIVE PURPOSES. IT BEING PRESCRIBED IN I. TO III. DRACMAS (LXIII. TO LIX. GRAINS), WE QUESTION HOWEVER, ITS VALUE AS A STIMULANT FOR THE GROWTH OF HAIR, FOR WHICH IT WAS MIXED WITH WINE AND APPLIED EXTERNALLY. ACONITE WAS PRESCRIBED IN BUT FOUR DISEASES. ITS TOXIC POWERS WERE FULLY RECOGNISED, BUT SOMEWHAT ERRATICALLY, INASMUCH AS IT WAS SUPPOSED TO BE AN ANTIDOTE TO ANY POISON WHICH MIGHT EXIST IN THE SYSTEM. "ACONITE KILLS MAN UNLESS IN MAN THERE IS SOMETHING ELSE TO KILL!" HENCE ITS ADMINISTRATION EMPIRICALLY IN SNAKE-BITE.

OTHER REMEDIES USED DAILY BY THE NINETEENTH CENTURY CHEMIST WERE COMMONLY PRESCRIBED BY THE FIRST CENTURY PHYSICIAN... GUM ACACIA, COLOCYNTH,

PLATINUM, IN THE VEGETABLE WORLD, AND, GOLD, SILVER, LEAD, COPPER, ETC. AMONG THE MINERALS, ARE DESCRIBED IN THE MATERIA MEDICA OF THAT LONG-PAST AGE. THE VALUE OF OPIUM AS A SOPORIFIC WAS RECOGNIZED, AND ITS MODE OF COLLECTION IS FULLY DESCRIBED IN WORKS OF REFERENCE, SUCH BEING PRACTICALLY THE SAME AS THAT NOW FOLLOWED. IT IS DOUBTFUL IF RHubarb WAS APPRECIATED, ALTHOUGH A DRUG NEARLY RESEMBLING IT IS MENTIONED AS AN APERIENT. ELECAMPANE IS DEPICTED AS A PECULIARLY VALUABLE REMEDY FOR DISEASES OF THE STOMACH, AND IT IS RECORDED THAT JULIA AVGVSTA, DAUGHTER OF AVGVSTVS

CÆSAR USED TO EAT THE ROOT DAILY.

A VERY INCOMPLETE LIST OF VEGETABLE REMEDIES DESCRIBES SOME CL DIFFERENT PLANTS WHICH WERE USED IN PHARMACY.

THE CABBAGE SEEMS TO HAVE HELD THE PALM AS A REMEDIAL AGENT, IT HAVING BEEN CONSIDERED USEFUL IN LXXVII. DISORDERS, WHILE RUE WITH LXXXIV., GARLIC AND ANISE WITH LXI., AND MALLOW WITH LIX., ARE BY NO MEANS FAR BEHIND AS FAVORITE REMEDIES, INDICATING THAT FLATULENCY AND PULMONARY DISORDERS WERE NOT UNCOMMON. THE FLORAL WORLD RENDERED ITS TRIBUTE LARGELY, THE ROSE BEING DEMANDED IN XXXIII. AILMENTS AND THE

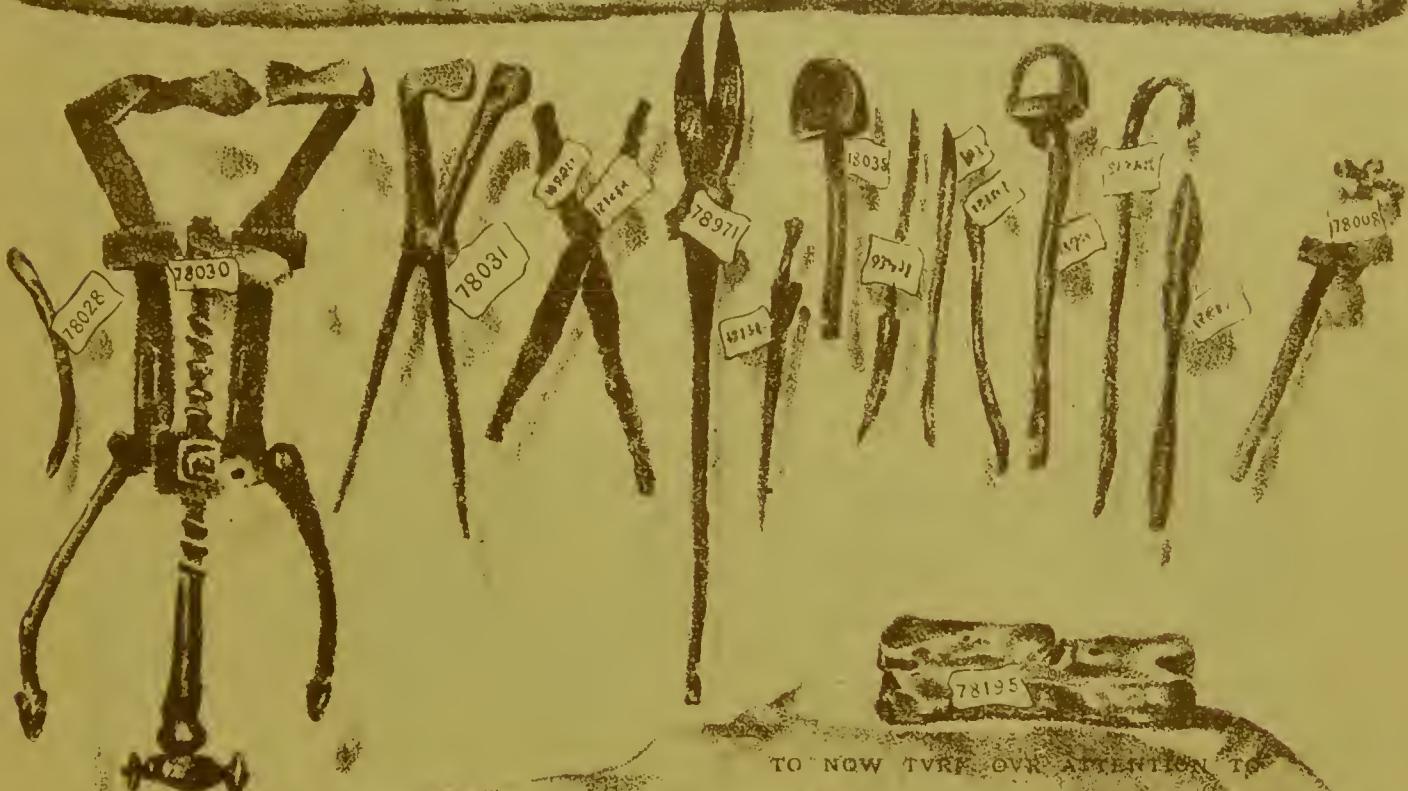
LILY IN XXI.

TO TURN TO THE REMEDIES PRODUCED BY THE ANIMAL KINGDOM, WE FIND THAT ALL THEN-KNOWN BEASTS AND BIRDS CONTRIBUTED THEIR QUOTA TO THE MATERIA MEDICA TO COMMENCE WITH MAN THERE WERE CCXXVI. REMEDIES WHICH COULD BE SUPPLIED BY THE ADULT WHILE CHILDREN COULD PRODUCE VIII. THESE WERE ALL HORRIBLE TO CONTEMPLATE, THE LESS OBNOXIOUS BEING HUMAN HAIR IN WINE FOR SOOT, AND CERVENAS AS AN EXTERNAL REMEDY FOR STINGS AND SNAKES. THE BLOOD FOR QUINSY AND EPILEPSY, THE TEETH, SPITTLE, AND EXCREMENTITIOUS PRODUCTS FOR OTHER DISORDERS WERE FAVORITE PRESCRIPTIONS, WHILE THE SCRAPINGS FROM THE BODIES OF ATHLETES, MIXED AS THEY WERE WITH THE OIL, WITH WHICH THEY ANOINTED THEMSELVES, ALWAYS FETCHED A HIGH PRICE ON THE MARKET. THE HAIR FROM A MAN TORN FROM THE CROSS WAS A SOVEREIGN REMEDY FOR QUARTAN FEVER.

OF THE LOWER ANIMALS THE HYENA SEEMED TO BE THE FAVORITE FROM A MEDICAL POINT OF VIEW, IT CONTRIBUTING LXXIX. REMEDIES FOR THE CURING OF HUMAN ILLS. THE CROCODILE WITH XIX., THE CHAMELEON WITH XVI., THE LION AND CAMEL WITH EACH, THE ELEPHANT WITH VIII., AND THE HIPPOPOTAMUS WITH VII., FOLLOWED WHILE THE LYNT COULD AFFORD

JVI.Y 28, 1891

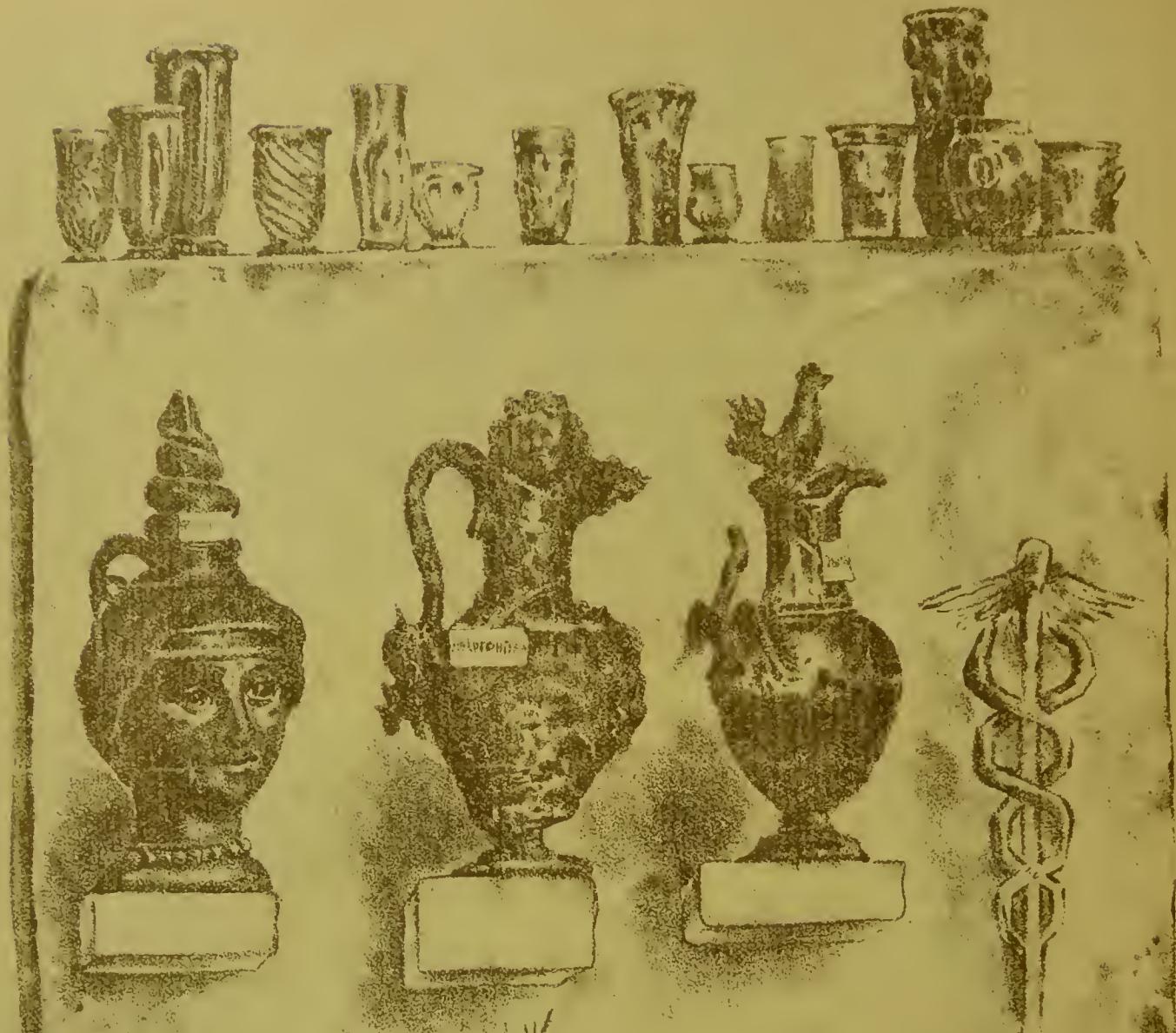
BUT VARIOUS REMEDIES, THE COMMON THINGS OF DAILY FOOD WERE NOT FORGOTTEN  
AND UNDER THIS CATEGORY MILK IS MOST HIGHLY VALUED IT BEING A REMEDY  
FOR LIV. DISORDERS. FAT, WOOL, BUTTER, CHEESE AND EGGS ALL HAD  
THEIR SHARE IN THE MATERIA MEDICA, WHILE WOOL GREASE WAS DEMANDED  
IN XXXII. AILMENTS



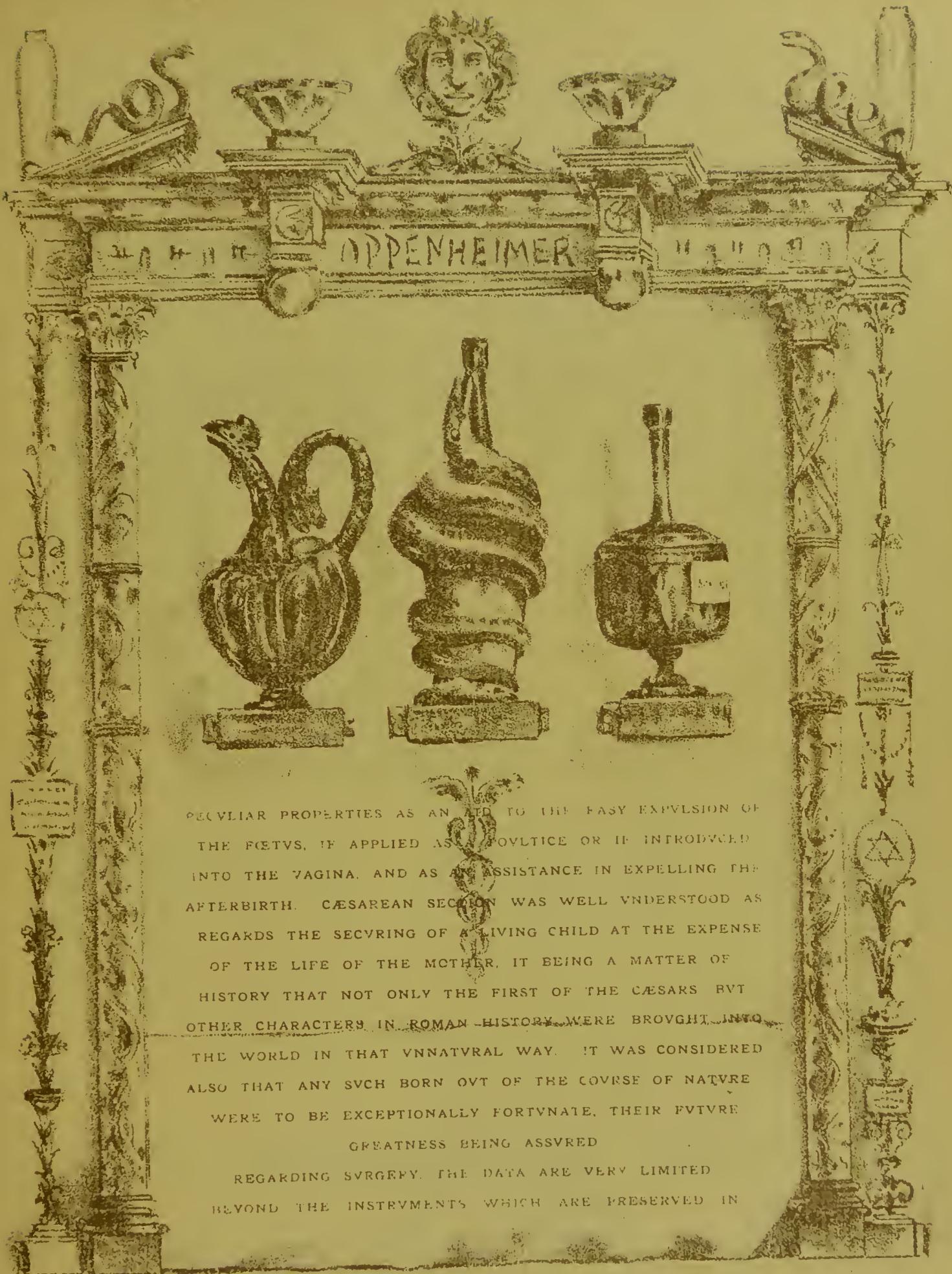
TO NOW TURN OUR ATTENTION TO  
THE MINERAL WORLD, WE FIND THAT MANY OF

FORM HEADS THE LIST IN THE CRUDE STATE IT AFFORDED VII. REMEDIES, WHILE IF  
SCALED AS DROPPED FROM THE ANVIL IN FLAKES, IT WAS RECKONED VALUABLE IN  
XVII. DISORDERS RUST (OXIDE OF IRON) WAS DEMANDED IN XIV. AILMENTS. SALTS OF  
IRON SEEMED LITTLE APPRECIATED, AND THE CHEMICAL KNOWLEDGE AS TO COMPATABILITY  
WAS LITTLE, IF AT ALL, UNDERSTOOD, HENCE THE BIPALATINOID WAS NOT, AS IT IS TO-  
DAY, IN DEMAND. LEAD IN SOME FORM WAS ALSO PRESCRIBED LARGEY, EITHER IN  
CRUDE FORM OR AS PROTOIODIDE AND LITHARGE NITRVM, SALT, GOLD, TIN, SILVER,  
HYDRATE (FROM MINIVM), AND REALGAR WERE NOT NEGLECTED, WHILE COPPER, EITHER  
IN CRUDE FORM, AS AN OCHRE (CÆRVLEVVM), IN SCALES FROM THE ANVIL IN THE FORM OF  
CADMIA-SORY (COPPER SVLPH.), AND VERDIGRIS, AS ALSO MISY (A COMBINATION OF THE  
SVLPHATES OF COPPER AND IRON) WERE NOT INFREQUENTLY PRESCRIBED.

THE SECOND PLINY, WHO LOST HIS LIFE DURING THE ERUPTION OF MOUNT  
VESUVIUS WHICH OVERWHELMED POMPEII, AND FROM WHOSE WORKS MUCH OF  
THE ABOVE MATTER HAS BEEN COLLATED, WAS BY NO MEANS AN ADVOCATE  
OF THE USE OF SYNTHETIC PRODUCTS, NOR FOR THE IMPORTATION  
OF NEW REMEDIES HE CLAIMED THAT EVERY DISEASE SHOULD  
BE CURED BY THE PRODUCTS OF NATURE'S REMEDIES AS THEY  
ARE FOUND IN NATURE'S LABORATORY WHERE THE DISORDER  
EXISTS. "I HAVE NO LIKING FOR DRUGS WHICH COME  
FROM SO GREAT A DISTANCE



AS INDIA AND ARABIA AND OTHER FOREIGN CLIMATES. THEY ARE NOT PRODUCED FOR US NOR YET FOR NATIVES IN THESE COUNTRIES, OR ELSE THEY WOULD NOT BE SO READY TO SELL THEM TO US, HE DECLARES IN HIS NATURAL HISTORY. GYNAECOLOGY WAS BY NO MEANS REJECTED BY THE ROMANS, AS EXEMPLIFIED BY THE INSTRUMENTS, SPECIMENS OF WHICH ARE EXTANT, BUT OF THESE LATER EMMENAGOGVES WERE LARGELY DESCRIBED, WHILE PARTVRIENTS WERE LEGION. A SINGLE SEED OF THE COLYCYNTH WRAPPED IN RAMS' WOOL AND APPLIED WITHOUT THE KNOWLEDGE OF THE PATIENT TO HER BACK DURING PARTVRIATION WAS CONSIDERED A CERTAIN AID TO A HAPPY TERMINATION OF THE LABOR. THE CATAMENIA WERE CONSIDERED A BLIGHT TO ALL ANIMAL AND VEGETABLE LIFE. THE ANTS WOULD DROP THEIR FOOT OR THE EGGS THEY WERE CARRYING, ON THE APPROACH OF A MENSTRUOUS WOMAN, AND NOT RETURN FOR THE RECOVERY OF THEIR BURDENS. ALL SEEDS SOWN, WHEREVER A WOMAN WITH THAT PROCESS EXISTANT WALKED WOULD BE VNPROLIFIC. RESPECTING PVRTVRITION ITSELF MANY SUPERSTITIONS EXISTED. THE PLACENTA OF A COW WAS SUPPOSED TO EXERCISE



PECULIAR PROPERTIES AS AN AID TO THE EASY EXPULSION OF  
THE FETUS, IF APPLIED AS A POUltice OR IF INTRODUCED  
INTO THE VAGINA, AND AS AN ASSISTANCE IN EXPELLING THE  
AFTERBIRTH. CÆSAREAN SECTION WAS WELL UNDERSTOOD AS  
REGARDS THE SECVRING OF A LIVING CHILD AT THE EXPENSE  
OF THE LIFE OF THE MOTHER, IT BEING A MATTER OF  
HISTORY THAT NOT ONLY THE FIRST OF THE CÆSARS BUT  
OTHER CHARACTERS IN ROMAN HISTORY WERE BROUGHT INTO  
THE WORLD IN THAT VNNATURAL WAY. IT WAS CONSIDERED  
ALSO THAT ANY SVCH BORN OVT OF THE COURSE OF NATVRE  
WERE TO BE EXCEPTIONALLY FORTVNATE, THEIR FVTVRE  
GREATNESS BEING ASSVRED  
REGARDING SVRGERY, THE DATA ARE VERY LIMITED  
BEYOND THE INSTRVMENTS WHICH ARE PRESERVED IN

COLLECTIONS, AND WHOSE  
USE IS IN MANY INSTANCES  
BUT VNSETTLED. WE  
HAVE NO FACTS UPON WHICH  
TO DISSERTATE  
THAT SPECVLA, BOTH FOR  
UTERINE AND ANAL USE, WERE  
IN DEMAND WE KNOW, AS ARE  
SHOWN BY A FEW WHICH  
WE HAVE DEPICTED IN OUR  
ILLUSTRATIONS. THE CATHETER  
WAS PRACTICALLY THE SAME  
AS IS IN CONSTANT DAILY USE  
AND ELEVATORS FOR CRANIAL  
DEPRESSIONS, BISTOVRIES, AND  
SCALPELS ARE COMPARATIVELY  
COMMON IN COLLECTIONS. THE  
USE OF THE FORCEPS AND  
UTERINE HOOK SEEMS TO HAVE  
EVEN KNOWN IN A CRUDLE WAY  
WHILE ARTERY FORCEPS AND  
INSTRUMENTS FOR THE CURE OF  
BOTH RECTAL AND URETHRAL  
DISEASES, ARE PLENTIFUL.  
IT IS SOMEWHAT REMARKABLE  
THE NUMBER OF DISEASES  
WHICH WERE RECOGNISED  
BY THE ROMANS.

BACTERIOLOGICAL

RESEARCH WAS OF COURSE VN-  
KNOWN, WE HAVING NO EVI-  
DENCE OF THE MICROSCOPE  
FORMING PART OF THE  
PHYSICIAN'S ARMAMENTARIUM.  
NEVERTHELESS, SOME XXX. DIS-  
ORDERS ARE DESCRIBED WITH  
IN SOME INSTANCES, MAR-  
VELLOVS RECOGNITION OF SYMP-  
TOMS. ALTHOUGH THE REMEDIES  
USED IN THEIR CVRE APPEAR TO  
VS TO BE VERY CRUDE. IT  
SHOULD NOT BE FORGOTTEN  
THAT HYDROPATHY WAS CON-  
SIDERED A VALVARBLE ADVNCT  
TO THE TREATMENT OF DISEASE.  
ASCLEPIAS & SCVLAPIVS  
HAVING TAUGHT ITS MERITS IN  
CERTAIN DISORDERS

OPPENHEIMER, SON & CO LTD

LONDON

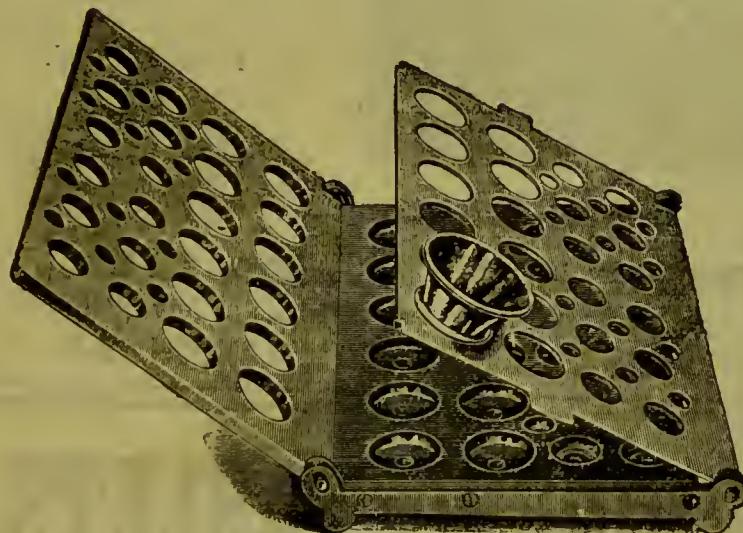
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Save your money and your time by using **MORSTADT'S CACHET CLOSING APPARATUS**, and follow the example of many who, by putting up Headache and Neuralgia Powders, &c., in this neat way, are making Cachets into

## A PROFITABLE LINE.

CACHETS SUPPLIED STAMPED WITH NAME OF FIRM, OR OF ANY DESIRED DRUG.

### (MORSTADT) CACHETS AND CLOSING APPARATUS. IMPROVED AND PATENTED BY T. CHRISTY & CO.



The Apparatus figured will close one dozen Cachets at once, of six different sizes, in an extremely simple, quick, and neat manner, without any adjustment of the apparatus to suit the different sizes. It prevents the powder from getting between the edges of the Cachets, and ensures their being firmly and accurately closed by simply passing the damping roller over all the lids of the Cachets, closing the apparatus, and pushing out the twelve closed Cachets.

Net Prices of Apparatus Complete, including Case—		
	Nickel Zinc.	
A, closing 12 Cachets each of No. 000, 0, 0½, 1, 1½, 2 ..	30/- 20/-	
A, " " " without 000 .. ..	27/6 18/6	
B, " " " cf No. 0, 0½ .. ..	16/- 12/-	
C, " " " of No. 1, 1½, 2, and 000 .. ..	18/- 13/-	
C, " " " 1, 1½, and 2 .. ..	16/- 12/-	
Single Apparatus, to close one Cachet at a time of all sizes, including 000 .. .. ..	6/6	
Single Apparatus, to close one Cachet at a time of 0, 0½ .. ..	2/6	
" " " " " of 1, 1½, 2 .. ..	2/6	
No. CACHETS. Per 1,000.		
000, holding 1½ grain of Quinine .. .. ..	.. .. ..	5/-
0, " 3 to 4½ grains of Quinine .. .. ..	.. .. ..	5/-
0½, " 6 to 7½ .. .. ..	.. .. ..	5/-
1, " 9 to 10½ .. .. ..	.. .. ..	5/-
1½, " 10½ to 15 .. .. ..	.. .. ..	6/-
2, " 15 to 18½ .. .. ..	.. .. ..	7/6
Embossing Name and Address, 6d. extra per 1,000 Cachets.		
Die for 0 and 0½, 2/6; and for 1, 1½, and 2, 2/6		

## CHRISTIA-BACKED LINT.

The backing to this material is THIN and FLEXIBLE, CHLOROFORM-PROOF, SPIRIT-PROOF, OIL-PROOF, GREASE-PROOF, HOT and COLD WATER-PROOF.

This renders it invaluable for the application of such ointments or substances as would entirely destroy oiled silk, and similar materials used to prevent ointments, grease, or fluids soiling clothing.

For application of Linimentum Chloroformi (Neuralgia). For application of Chloroformum Belladonneæ (Lumbago) it is unsurpassed.

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## PETROLEUM JELLY.

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THOMAS CHRISTY & CO., 25 LIME STREET, LONDON, E.C.

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FOR THIS PURPOSE ARE THOSE

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THE NEW PERMANENT

# ENGRAVED WINDOW TABLETS,

PRIZE MEDAL,  
International  
Health Exhibition,  
1884.

IN RUBY, BLUE, AMBER,  
AND  
OPAL GLASS.

AWARD OF MERIT,  
International  
Sanitary Exhibition,  
1881.

Send particulars of size, subject matter, and colour, when price for one Tablet and upwards will be sent.

For Proprietary Articles, 100 8 x 6 Ruby Tablets, £3 15s. Od.

**J. R. CORSAN,** THE LONDON  
SAND-BLAST WORKS, **58A GRAY'S INN ROAD, W.C.**  
TO PREVENT FRAUD, DEMAND BUSINESS CARD FROM TRAVELLERS.



SPECTACLES & EYE-GLASSES  
IN ALL METALS.

And for all Kinds of OPTICAL GOODS, buy from the Makers.  
Lists and information upon Application, of  
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BOTWRIGHT & GREY  
MANUFACTURING OPTICIANS,  
CLERKENWELL, LONDON, E.C.

REPAIRS AND ODD ORDERS  
received by post are executed  
and returned the same  
day.

## Works and Workers.

### MESSRS. ROBERT GIBSON & SONS.

AMONG the many enterprises which have their headquarters in Manchester, and have built for themselves great names, few have established so valuable a reputation as that which pertains to the title of Messrs. Robert Gibson & Sons, Lozenge Manufacturers, of Erskine Street, Hulme. The value attached to what we may call the signet of manufacture by Messrs. Gibson is not only great throughout the United Kingdom: it extends abroad, and has built up throughout the States, Australasia, New Zealand, India, and the whole of the colonies a fame of which any firm might justly be proud. The best proof of this, in a commercial sense, that can be cited, is that Messrs. Gibson's goods command without demur higher prices than those of their competitors, quality being the one point on which the firm base their appeal to popular favour.

Like most other prosperous businesses, the industry which has advanced so rapidly began in a small way, its early rise being attributable to the thorough practical knowledge and sterling business methods of Mr. Robert Gibson. Mr. Gibson, who is an Alderman and a Justice of the Peace for the

machines accomplish the whole process, turning out the finished articles in a way that can only be wondered at. In another room lozenges of all sorts are made. The boiling is done in copper, and the right consistency having been attained, the contents are turned out in a thick mass onto the cooling-slabs. When sufficiently cooled the paste is rolled through the machines, coming out in an indented but unbroken sheet, something similar to a sheet of stamps. The whole sheet can afterwards be shivered at a blow, and nothing remains but to bottle the drops. Medicated lozenges of all kinds are made in the rooms above, the process being as simple as it is entertaining to watch. In another part of the building is to be found the comfit pan, a huge bowl with a circular rotatory motion, capable of fashioning into shape a hundredweight of whatever is entrusted to it. Close by is a sugar-pulveriser of an uncommon design. After passing through the mill the sugar encounters a strong fan, and such of it as is of the requisite fineness is blown up a shaft into an air chamber above, from which it is again carried downwards by another tube. After it has passed the ordeal, its condition mocks for fineness any dour. Two of these instruments have been erected. Further along sulphur tablets, chloro-lyne lozenges, and similar articles are being stamped out of paste. About twenty hands in summer and more in winter are constantly employed in the making of the different tablets. The paste is rolled out in sheets, the cutting-out done by hand, and the stamping of the inscription is a separate act for each tablet. It is needless to say that the dexterity attained by the men so employed is marvellous. Row after row of beautifully-finished ovals are turned out and stamped whilst the visitor looks on, the touch of the stamper being regulated with the utmost nicety. All the tablets are hand-made, and it is only



City of Manchester, and well known for the interest he takes in municipal matters, has the pleasure of conducting a concern which has never looked back; and about five years ago the commodious block of buildings, known as the Carlton Works, in Erskine Street, was erected, where the firm now employ about 100 hands, and still find themselves pressed for room.

In the basement of the building is a horizontal engine, by Bellhouse, of 24-horse power, driving the whole of the machines employed on the premises, as well as supplying the necessary heat in the various departments, and on the top floor is the drug-room. Between the two there is much to interest the visitor. The drug room is the sanctum of all, and none but the favoured can hope to enter. Every ounce of material used is given out from here, and what work is involved in this may be imagined from the fact that Messrs. Gibson make up some hundreds of physicians' and chemists' private formulae. In the room are upwards of 150 samples of pellets alone, made by the firm, and of the cost of the material stored here it would be better perhaps not to speak. Messrs. Gibson are the largest buyers of some of the most costly drugs in the country, and the money worth of some of the tins racked here runs into hundreds of pounds. Little compass, here, as in other things, is not a safe criterion of worth. Of the extent of Messrs. Gibson's transactions in the commoner commodities of the trade some idea may be formed from the fact that at one time last year they purchased seven tons of black currants to make into black-currant paste for throat hospital orders alone.

One of the most interesting departments is that in which the various elixirs and tinctures which the firm make are manufactured. Automatic

by adhering to this principle that Messrs. Gibson consider it possible to preserve the neatness and finish which have so long characterised their goods. A slight change of method is observable in the jujube department. Here, in big trays filled with starch, scores of rows of moulds are framed, into which at the proper moment the boiling fluid is poured from a many-necked can. An expert hand will fill a tray of moulds in less than a minute, and nothing then remains but to await the cooling. This accomplished, the jujubes are washed, to remove their coat of starch, and they are then fixed on rows of pins and plunged in the glazing-fluid, which imparts a delightful clearness and finish to them. Their removal from the pins is effected by an ingenious machine, which frees a row at every pull, thus preventing any touch with the hands spoiling the gloss of the finished article, and exceedingly attractive the finished article looks when seen in golden heaps of crystal clearness. Scarcely less enticing is the scent of peaches and other essences which lingers in the room during the boiling. Messrs. Gibson have a special line in peach-flavouring, and, judging by the smell, it is an uncommonly good one. The "Delectable," "Magnum Bonum," and "Vale" jujubes are to be encountered here, together with many others. With slight variation, the processes described here are applied to all the articles manufactured on the premises. The bottling is done in handsome glass jars, varying in size from 4 lbs., in a separate department, and the goods are ready for shipment. Most of the trade, as has been stated, is for export purposes, many of the firm's consignments totalling 100 tons. China takes a speciality of her own liking, the colonies others, and in the States the firm—despite tariffs—can practically command their own price in a candy-loving land.

# BAILEY'S

MANUFACTORY:  
38 OXFORD STREET, LONDON, W.  
Telegrams, "Bayleaf London."

## BAILEY'S "A B C" Suspensory Bandages.

### TESTIMONIAL.

GENTLEMEN,—Please repeat our last order for "Suspensory Bandages." We think your idea of arranging the sizes and qualities by the use of numbers and letters a very excellent one, as it is most convenient to the Chemist in ordering, and we find our customers make use of your method. It brings us many repeat orders.

Yours faithfully, ANDERSON & VIRGO.

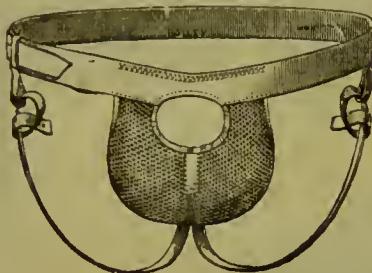


FIG. 1.

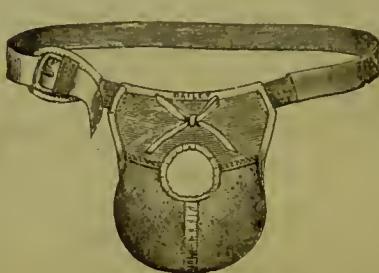


FIG. 2.

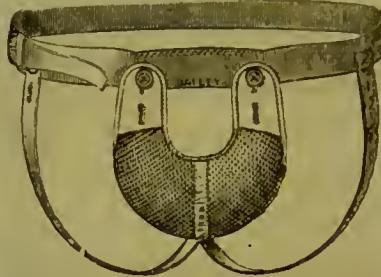


FIG. 3.

8	1/O No. 1, Cotton, with tape under-straps	...	...	...	Fig. 1,	8/- per doz.
6	1/6 No. 2, " with drawing-strings	...	...	...	Fig. 2,	10/- per doz.
6	2/6 No. 4, Silk, "	...	...	...	Fig. 2,	18/- per doz.
3	3/6 No. 6, Super. Silk, with "	...	...	...	Fig. 2,	24/- per doz.
3	3/6 No. 8, " with button-bags	...	...	...	Fig. 3,	24/- per doz.

**SAMPLE CABINET, PRICE 30/- Usual Discount.**

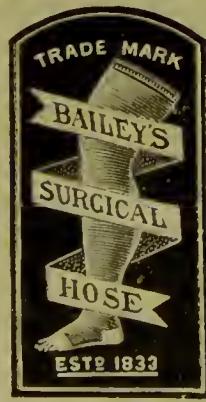
**SPECIAL QUOTATION FOR ONE GROSS OF SUSPENSORY BANDAGES, ASSORTED OR OTHERWISE.**

**ALL ASSORTED.—A small, B medium, and C large bags. Each in Separate Box.**

## ELASTIC STOCKINGS, KNEE CAPS, &c.

### SILK ELASTIC. ORDINARY QUALITY.

### COTTON ELASTIC. ORDINARY QUALITY.



PER PAIR.	1st Pink.	2nd Pink.	3rd Pink.	Super Ordinary Pink or Pearl.	1st White.	2nd White.	3rd White or Drab.
Stockings ... ...	11/6	9/-	7/6	12 6	6/6	5/6	4/7
Knee-caps ... ...	7/6	6/6	4/8	8/6	5/6	4/-	3/4
Calf-pieces ... ...	8/6	7/6	5/-	9/6	6/-	4/6	4/-
Anklets ... ...	7/3	5/6	4/8	8/3	4/6	3/8	3/4
Knee Stockings ...	19/-	16/-	12/6	21/6	12/-	9/6	7/11
Thigh Stockings ...	28/6	22/6	17/-	29/6	17/6	13/6	11/3
Thigh-pieces ...	9/3	7/-	5/6	10/-	5/6	4/4	4/-
Knee and Thigh ...	17/-	13/-	10/6	17/6	11/-	8/-	7/-
Knee and Calf ...	17/-	13/6	10/6	17/6	11/6	8/6	7/6
Thigh, Knee, and Calf	25/-	20/-	15/-	27/-	14/6	12/-	11/-
Wristlets ... ...	3/-	2/-	—	—	2/-	1/2	—

**W. H. BAILEY & SON, 38 OXFORD ST., LONDON, W.**

TELEGRAPHIC ADDRESS—"BAYLEAF LONDON."

# SYR. HYPOPHOS. CO., FELLOWS

CONTAINS THE ESSENTIAL ELEMENTS of the Animal Organisation—Potash and Lime;

THE OXIDISING AGENTS—Iron and Manganese;

THE TONICS—Quinine and Strychnine;

AND THE VITALISING CONSTITUENT—Phosphorus: the whole combined in the form of a Syrup with a SLIGHTLY ALKALINE REACTION.

IT DIFFERS IN ITS EFFECTS FROM ALL ANALOGOUS PREPARATIONS, and it possesses the important properties of being pleasant to the taste easily borne by the stomach, and harmless under prolonged use.

IT HAS GAINED A WIDE REPUTATION, particularly in the treatment of Pulmonary Tuberculosis, Chronic Bronchitis, and other affections of the respiratory organs. It has also been employed with much success in various nervous and debilitating diseases.

ITS CURATIVE POWER is largely attributable to its stimulant, tonic, and nutritive properties, by means of which the energy of the system is recruited.

ITS ACTION IS PROMPT; it stimulates the appetite and the digestion; it promotes assimilation, and it enters directly into the circulation with the food products.

The prescribed dose produces a feeling of buoyancy, and removes depression and melancholy; hence the preparation is of great value in the treatment of mental and nervous affections. From the fact also that it exerts a double tonic influence, and induces a healthy flow of the secretions, its use is indicated in a wide range of diseases.

## NOTICE—CAUTION.

The success of Fellows' Syrup of Hypophosphites has tempted certain persons to offer imitations of it for sale. Mr. Fellows, who has examined samples of several of these, FINDS THAT NO TWO OF THEM ARE IDENTICAL, and that all of them differ from the original in composition, in freedom from acid reaction, in susceptibility to the effects of oxygen when exposed to light or heat, IN THE PROPERTY OF RETAINING THE STRYCHNINE IN SOLUTION, and in the medicinal effects.

As these cheap and inefficient substitutes are frequently dispensed instead of the genuine preparation, physicians are earnestly requested, when prescribing the Syrup, to write "Syr. Hypophos. FELLOWS."

As a further precaution, it is advisable that the Syrup should be ordered in the original bottles (4/- or 7/-): the distinguishing marks which the bottles (and the wrappers surrounding them) bear can then be examined, and the genuineness—or otherwise—of the contents thereby proved.

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## **SPECIALITIES.**

MEDICAL AND SURGICAL PLASTERS,

SOLUBLE PEARL-COATED PILLS,

Granular Effervescent Preparations,

MEDICATED LOZENGES,

**JUJUBES & PASTILLES,**

AND

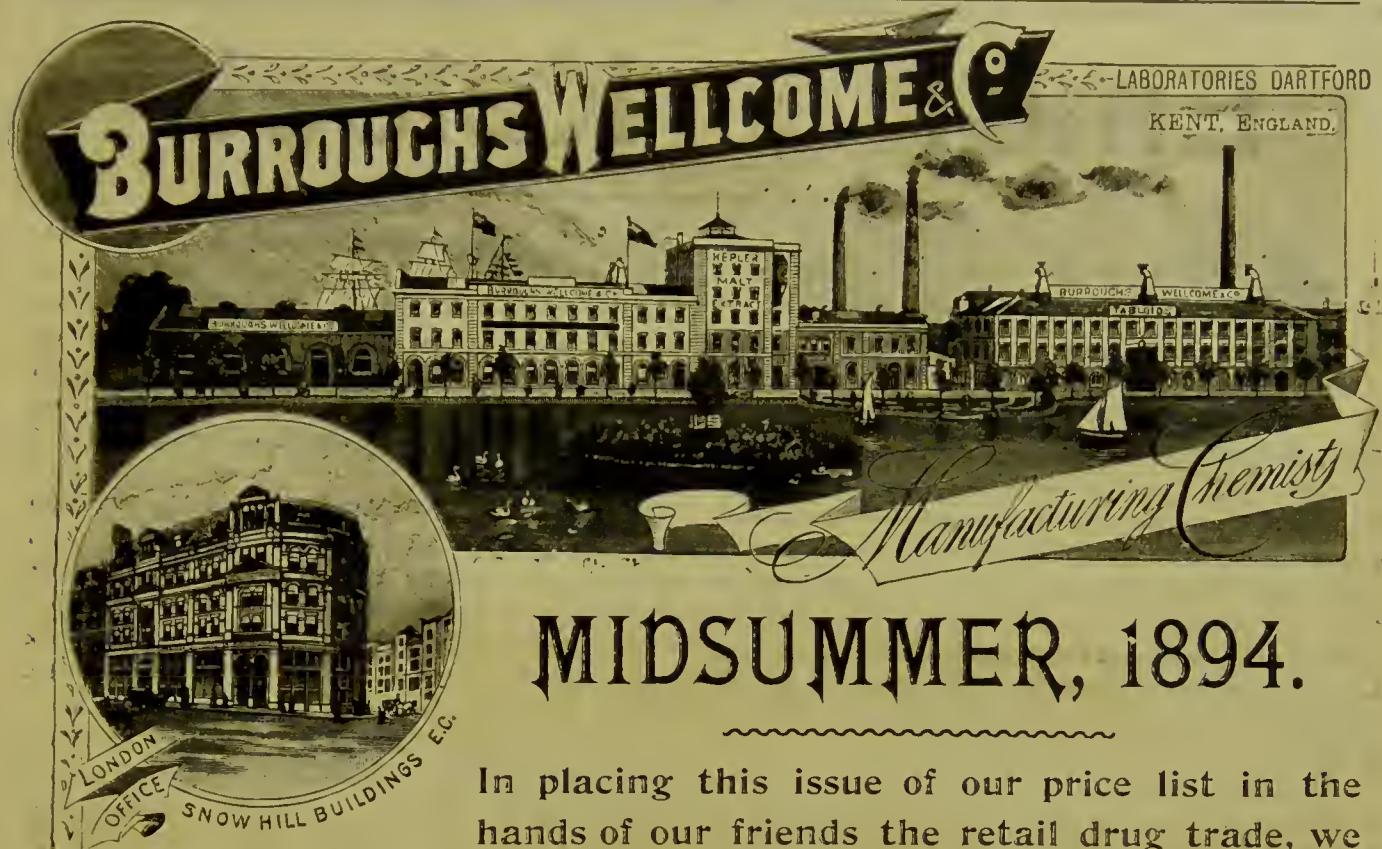
**BOILED SUGARS & FRUIT SYRUPS.**

---

CORRESPONDENCE INVITED.

FREE SAMPLES SENT.

PROMPT SHIPMENTS GUARANTEED.



## MIDSUMMER, 1894.

In placing this issue of our price list in the hands of our friends the retail drug trade, we have to acknowledge once more our very sincere obligations for the hearty and generous support accorded to us during past years. It will be found, on comparing the present list with the corresponding issue of last year, that on account of the enormous increase in quantities manufactured we are enabled to make substantial reductions in the price of many of our products—especially in “Tabloids” of compressed drugs; and we feel sure that these advantages will be heartily appreciated by those who have made a special feature of our articles, and will be an inducement to keep a yet fuller stock of them. It may be useful to point out here that since midsummer last we have made several additions of importance to our list—notably “Emol-Keleet,” “Tabloids” of Compressed Tea, Phenosalyl, Loretin, Diaptherin, Kepler “Bitter” Essence of Malt, several new Ophthalmic “Tabloids,” a new Powder Insufflator (patented) and several useful new “Tabloids” of Compressed Drugs or approved combinations of drugs, among them being the new “Tabloids” of Organic principles of animal origin. We may say further, that while we make these reductions to which we have referred, we shall always keep to the same high standard of excellence as we originally set for ourselves; that this standard has been maintained is proved by the popularity of our products in the medical profession, and the favourable reputation they have established among pharmacists.

**BURROUGHS, WELLCOME & CO.**

# Emol Keleet.

## A Remarkable Discovery for Skin Treatment.

**EMOL-KELEET** is a purified natural, emollient, absorbent dusting powder, of impalpable texture, as soft as down to the touch. It in no way resembles the ordinary and unstable compound astringent or starchy absorbent powders.

Chemically, Emol-Keleet may be said to be closely allied to superior qualities of Fuller's Earth, yet it is quite distinct from the usual varieties of that substance, in that it contains a considerable percentage of Steatite (known commonly as soap stone), as well as Silica, Alumina, traces of Calcium Salts, and an appreciable trace of Ferrous Oxide.

The delicate flesh-pink tone of Emol-Keleet—one of its much-admired characteristics—is due to the presence of Ferrous Oxide, while its soft silky feel is largely occasioned by the presence of Steatite.

Emol-Keleet, though comparatively new to the medical profession, has been known for some little time to a limited circle, and has been the subject of investigation by competent hands, both chemico-technicologically and therapeutically,

but it was not brought specially to the attention of the profession until the last meeting of the British Association, at Newcastle-on-Tyne, when an exceedingly interesting paper was read during the session of the Dermatological section, by the President, Dr. Allan Jamieson of Edinburgh.

The interest aroused by the therapeutic notes given in his paper by this distinguished authority on skin diseases, brought Emol-Keleet prominently into view, and a brief recapitulation of the points of the paper referred to may be useful.

It was shown that as dusting powder, Emol-Keleet, a perfectly innocuous and inoffensive material, is therapeutically superior to any previously known. When placed upon the tongue—one of the simplest and yet most severe tests as to utter impalpability which can be applied to a powdered substance—there was an entire absence of any sensation of grittiness.

It was noticed also, as a remarkable property of this powder, that when a small quantity, say a teaspoonful or so, was added to a basinful of hard water—such as one frequently meets within limestone areas—it effected an immediate softening influence. Used in this manner with warm water, Emol-Keleet acts as a natural soap, cleansing the skin thoroughly, and at the same time leaving it soft and smooth.

The learned president pointed out as evidence of the activity and effect of this compound that the workmen engaged in its purification found that their previously horny palms became so much softened by continued contact with it, that they could not use their hands for rough work without incurring severe friction. This fact led Dr. Jamieson to try the effect of Emol-Keleet upon horny accretions encountered in some states of keratosis of the palms and soles. When mixed with water to the consistency of a paste, and painted on pretty thickly—evaporation being prevented by covering the whole area with oiled silk, gutta-percha, or other impervious tissue—it was found that the epidermal masses became softened and loosened, and could actually be peeled off painlessly, eventually leaving the part so treated soft, smooth, and of a natural pinkish hue. In view of this experience, it is probable that Emol-Keleet will have a very wide sphere of usefulness in the treatment of many skin affections both local and constitutional, for it possesses many qualities which will be highly appreciated by dermatologists.

Used as an ordinary dusting powder, it was found to possess anti-pruritic properties, and relieved very markedly the itching of the skin now and then complained of in urticaria or during the eruptive period of measles. The absorbent qualities of Emol-Keleet, with its mild astringent tendency, stamp it as a perfectly harmless and absolutely unequalled dusting powder.

In moist or weeping conditions of the epidermis, such as one encounters so often in eczematous or erythematous affections the application of Emol-Keleet is followed by beneficial effect. From the dermatologist's point of view Emol-Keleet is a most useful addition to the list of remedial agents used in the treatment of cutaneous diseases.

During the recent vaccination (June, 1894) in Edinburgh, it was found that Emol-Keleet, on being applied to the part inoculated, at once allayed any irritation present, by its soothing and emollient influence.

Supplied to the trade at 8/6 per dozen boxes. Retail price 1/-



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# "TABLOIDS" (TRADE MARK) of COMPRESSED TEA

ARE ALREADY POPULAR WITH THE MEDICAL PROFESSION,  
AND BEING THUS SO WELL APPROVED, THESE "TABLOIDS"  
CANNOT FAIL TO INTEREST PHARMACISTS GENERALLY.

TEA TABLOID

### The "Lancet" of 14th July:

"The principal new feature in Messrs. Burroughs, Wellcome & Co.'s show is the tea 'Tabloids,' which are invaluable to travellers. A very small neat box contains 100 tea 'Tabloids,' costs only sixpence, and with it 100 cups of tea can be made by simply pouring boiling water on the 'Tabloids,' which are placed like a piece of sugar at the bottom of the cup. As the coarser or woody part of the tea-leaf has been removed in the process of manufacture, these 'Tabloids' are stated to be free from the more objectionable properties of tea, and if this assertion is proved by analysis, the precautions which should be taken with ordinary Indian teas need not be applied to the 'Tabloids.' Their cheapness, their portability, and the facility with which tea can be made are all great advantages, especially to the travelling public."



**Dr. Ernest Hart**, Chairman of the Council of the National Health Society, and Editor of *The British Medical Journal*, lecturing before the said society upon "Tea, Coffee, and Cocoa," said:—

"Some months ago I had sent to me a series of tea 'Tabloids' made by compression into the 'Tabloid' form, of carefully selected and finely ground teas of Japan, India, and Ceylon. During my recent travels I used these largely, and with excellent results. Investigating the matter accurately, I found that weight for weight the finest teas in small compressed 'Tabloids' gave results at least three times better than the same tea in leaf. These 'Tabloids' are a scientific application of the experience of the great tea-using nations of the East. Their extreme portability, the automatic and accurate measurement of quantity which they facilitate, and the saving of fully 50 per cent. in cost, together with the readiness with which a cup of tea might be prepared from them in a few seconds, are advantages which I think are likely to be highly appreciated by others, as they have been by me."

### The "British Medical Journal," July 14:

"We have received from Messrs. Burroughs, Wellcome & Co. a box of tea 'Tabloids' for examination. 'Tabloids' of compressed tea secure to the consumer several important advantages, amongst which we may mention the following. 'Tabloids' contain pure tea only, of superior quality, without the large portion of inferior leaf found in common tea, hence they yield a delicious and healthful beverage. Each 'Tabloid' contains an exact and uniform quantity, and yields an infusion of uniform strength. Waste is entirely avoided. 'Tabloids' afford the most convenient and quickest method of making tea. They produce a cup of delicious tea in one minute with a maximum of thein and a minimum of tannin. 'Tabloids' possess superior keeping quality, and the greatest possible portability is secured. We look upon these tea 'Tabloids' as one of the most useful of modern inventions. For hospitals, hotels, and public institutions, for the traveller and yachtsman, for 'afternoon tea or the matutinal cup' at eight o'clock they are peculiarly advantageous and convenient. One hundred cups of pure tea for sixpence, made in a minute, accurately dosed as to quantity, and in the most wholesome form, of a rapid infusion, should effect a valuable and far-spreading revolution. They may, it seems, among other things, according to the report of the Lunacy Commissioners, remove a prevalent cause of dyspepsia and insanity among the poor, by whom tea is frequently 'stewed' for hours."

### Prices to the Trade.

#### SPECIAL PRICES FOR LARGE QUANTITIES.

SIXPENNY BOXES (enamelled metal), each containing 100 "Tabloids," in quantities of less than 3 doz., 5/- per doz. net.

ONE-SHILLING BOXES (enamelled metal), each containing 200 "Tabloids," in quantities of less than 3 doz., 10/- per doz. net.

ONE-PENNY SPECIMEN PACKETS, in quantities of less than 1 gross, 10d. per doz. net. In quantities of 1 gross or more, 9d. per doz. net.

TEASPOON STRAINERS are supplied at a small cost.

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# IS IT NOT THE DUTY OF EVERY PHARMACIST

TO KEEP THAT WHICH HE IS MOST LIKELY TO BE ASKED FOR? AND

AS PHOTOGRAPHIC "TABLOIDS" ARE RIGHT IN YOUR LINE, AND ARE

BOUND TO BE ASKED FOR, WE WOULD RESPECTFULLY ASK YOU—

# DO YOU KEEP THEM?

## PHOTOGRAPHIC "TABLOIDS."

Being prepared by dry compression, Photographic "Tabloids" do not readily deteriorate, but retain in full activity the qualities of the various salts which they severally represent, and so, in contradistinction to the oxidation, decomposition, and inconvenience of transport, which are characteristic of ready-made solutions, we have uniformity, reliability, and portability. The success which has attended the use of these "Tabloids" proves that they save time, save material and prevent disappointment. Photographic "Tabloids" are absolutely indispensable to the amateur, either at home or on tour. They will be found accurate, energetic, lasting, and reliable.

## THE OPINIONS OF PHOTOGRAPHIC JOURNALS REGARDING THEM.

### PURE PYROGALLIC ACID "TABLOIDS."

"After considerable experiment and test this firm (B. W. & Co.), which has been so successful in the production of 'Tabloids' for use in development and toning, has produced a 'Tabloid' of pure pyrogallic acid, made in certain strengths, so that an operator, knowing he is using the pure chemical, may know exactly what strength to 'make' his bath."—*Photography Annual*, 1894.

### PYROGALLIC ACID WITH EIKONOGEN "TABLOIDS."

"Such a combination as these two reagents in one 'Tabloid' is an advantage of some importance in, say, making developments en masse, and many will welcome it."—*Photography Annual*.

### "TABLOID" DEVELOPERS.

"'Tabloid' development has proved very helpful to many, as it enables them to discover the right exposure of any given brand of plate while on a holiday, and when the ordinary method of development is not within reach. No firm has given more thorough attention to these little essentials—'Tabloids'—than Burroughs, Wellcome & Co., and they are to be congratulated upon having secured the highest award granted by the judges of the photographic section of the Chicago Exhibition. 'Tabloids' are growing in estimation more and more, and for persons who are travelling they are invaluable."—*Photography*, 1893.



### EIKONOGEN WITH QUINOL "TABLOIDS."

"This firm are gradually extended their operations in those most useful forms of materials—'Tabloids.' For the traveller and the tourist, and even for those at home, they are wonderfully convenient."—*Photographic Review of Receipts*, 1893.

### TONING "TABLOIDS."

"'Tabloids' for toning ordinary silver or gelatino-bromide in the now well-known form. For toning it is requisite to dissolve one 'Tabloid' to every 3½ fluid ounces of water, boiling water being preferable to cold in order to facilitate solution. As soon as cold the bath is ready, and will be found to be one of the easiest forms of ready-made toning-baths in the market. We find it to give excellent tones, a strong tendency, indeed, being towards black, which the amateur fears so often fruitlessly years after; but not the least valuable property to our minds is the fact that it acts very quickly—indeed, almost as quickly as the Walford toning-bath—so that a lot of valuable time is not cut to waste whilst waiting for the bath to act. To the amateur the simplicity of measuring out so much hot water, and dropping in so many 'Tabloids,' is charming, as whilst it gets over the trouble of weighing out all the different substances, the worker can depend at all times upon having a uniform bath."—*Photography Annual*, 1894.

Photographic "Tabloids" are supplied to the Trade at the following prices:—

Developing "TABLOIDS"—	In bottles	Per	In bottles	Per	Accelerator "TABLOIDS"—	In bottles	Per
	of	doz.	of	doz.		of	doz.
Eikonothen .. ..	.. 15	.. 4/6	Pure Pyrogallic Acid, 2 gr. ..	.. 30	.. 4/6	.. ..	.. 3/-
" .. ..	.. 40	.. 9/-	" .. .. 2 gr. ..	.. 80	.. 9/-	.. ..	.. 6/6
" with Quinol .. ..	.. 15	.. 4/6	" .. .. 4 gr. ..	.. 18	.. 4/6	.. ..	.. 100 .. 6/6
Paramiophenol .. ..	.. 40	.. 9/-	" .. .. 4 gr. ..	.. 45	.. 9/-	.. ..	.. 125 .. 6/6
" .. ..	.. 12	.. 4/6	Pyrogallic Acid with Eikonothen ..	.. 20	.. 4/6	.. ..	.. 50 .. 3/-
Pyro-Developer .. ..	.. 30	.. 9/-	Quinol .. .. ..	.. 50	.. 9/-	.. ..	.. 125 .. 6/6
" .. ..	.. 25	.. 4/6	" .. .. ..	.. 25	.. 4/6	.. ..	.. 50 .. 3/-
Pure Pyrogallic Acid, 1 gr. .. ..	.. 70	.. 9/-	" .. .. with Pyro .. ..	.. 70	.. 9/-	.. ..	.. 125 .. 6/6
" .. .. 1 gr. .. 120	.. 45	.. 4/6	" .. .. ..	.. 18	.. 4/6	Toning "TABLOIDS"—	.. ..
" .. .. ..	.. 120	.. 9/-	" .. .. ..	.. 45	.. 9/-	Toning Gold Compound, in tubes containing 3 Tabloids .. ..	.. 8/-

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